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JAN 1 1916  
INDEXED

ULRICH  
BRUNNER

NO WINTER  
TOO COLD

MRS. JOHN LAING

PAUL NEYRON

FRAU  
KARL  
RUSCHKI



IRONCLAD COLLECTION  
BEAUTIFUL  
HARDY ROSES  
FOR 60¢ POSTPAID  
TWO YEAR OLD PLANTS  
\$1.25 POSTPAID

51<sup>st</sup> Annual Catalogue  
OF THE

IOWA SEED CO.  
Des Moines.

SEEDSMEN

TO THE AMERICAN PEOPLE  
Iowa.





# IRON CLAD ROSE COLLECTION

FIVE CHOICE PLANTS POSTPAID FOR 60 CENTS  
IN TWO-YEAR-OLD PLANTS FOR ONLY \$1.25

We consider this our best offer of roses for the amateur grower. Every variety is hardy and will stand the winters successfully. All bear blooms of extra size and the variation in color is sufficient to give all the shadings required for best effects. They are all June bloomers and belong to the hybrid perpetual class, so that they will succeed under ordinary conditions without too great labor. They will, however, amply repay special care with extra size and an increased number of beautiful blossoms.

**PAUL NEYRON** This is a beautiful shade of deep pink or rather a bright carmine crimson. It is distinct in color and certainly one of the loveliest of the hardy roses. Perfectly hardy, and survives the winter in any locality. Blooms are extra large and of splendid form. Each 15c; large two year old plants 30c.

**MRS. JOHN LAING** A fit companion for Paul Neyron in size, hardiness and form. Color soft blush pink, delicate and fragrant. One of the best because of large blooms and profuse bearing habit. Ea. 15c; large two year 30c.

**J. B. CLARKE** Awarded the gold medal of National Rose Society. A hybrid perpetual of unique color, being an intense scarlet shaded dark, rich, crimson maroon. Flowers very large and fine. Ea. 20c; large two year 40c.

**FRAU KARL DRUSCHKI** One of the very largest blooms among white roses. A strong, upright bush. Selected for this collection as the best hardy pure white rose, and best suited to accompany the really choice sorts that make up this collection. Each 15c; large two year old 30c.

**ULRICH BRUNNER** A splendid rose, is really second to none. The color is the popular glowing scarlet. Form and size equal to the best, while in hardiness and adaptability it will be satisfactory in any planting. Each 15c; large two year old plants 30c.

THE IRON CLAD ROSE COLLECTION OF FIVE CHOICE, HARDY PLANTS, POSTPAID, 60c. IN TWO YEAR OLD PLANTS, \$1.25.



J. B. CLARKE ROSE



AMERICAN BEAUTY ROSE.

## AMERICAN BEAUTY ROSE COLLECTION

Who has not heard of the American Beauty, the rose famed in poetry, story and song? The cut flowers are frequently sold during the winter at \$10.00 to \$25.00 per dozen. What flower lover has not hoped some day to have a "garden of roses" with American Beauties galore? This collection has proven very popular and we are growing vast numbers of plants for the immense demand. Read carefully the list of varieties fully described in the Plant List and notice the very low prices.

AMERICAN BEAUTY, WHITE AMERICAN BEAUTY, BLACK BEAUTY, STRIPED BEAUTY, PINK BEAUTY and MOSS BEAUTY. By mail prepaid to any address in the United States.

**SPECIAL PRICE: ONE STRONG PLANT OF EACH OF THE ABOVE SIX ROSES FOR SEVENTY-FIVE CENTS. ONE LARGE TWO YEAR OLD PLANT OF EACH FOR \$1.50.**



## "Complete Garden Collection"

35 Varieties Best Garden Vegetables

FOR \$1.00

All Good Desirable Sorts Sure to Please You

Consists of one full sized packet each of Refugee Beans, Old Homestead Pole Beans, Dewing's Beet, Swiss Chard Beet, Henderson's Snowball Cauliflower, Washington Wakefield Cabbage, Shortstem Drumhead Cabbage, Danvers Carrot, White Plume Celery, Early Sunrise Corn, Country Gentleman Corn, Emerald Cucumber, Improved Ground Cherry, American Curled Mosaich Kale, Monarch White Rice Popcorn, Continuity Lettuce, Improved Hanson Lettuce, Rocky Ford Musk Melon, Duke Jones Water Melon, Large Red Wethersfield Onion, Mammoth Prizetaker Onion, Iowa Challenge Peas, Charter Radish, Rosy Gem Radish, Improved Table Guernsey Parsnip, Market Gardener's Parsley, Large Bell Pepper, Early Crookneck Squash, Hester Squash, Bloomsdale Spinach, Stone Tomato, Matchless Tomato, White Egg Turnip, Purple Top Strap Leaf Turnip, Monarch Ruta Baga, and Garden Lemon.

**Total of 35 Full Sized Packets Sent Postpaid for \$1.00**

At Our Regular Price They Amount to About Two Dollars

**NOTICE:** These collections are all put up ready for mailing before our busy season begins, and therefore cannot be changed or divided. Varieties described in Vegetable Seed Dept. It is a Bargain. Can a Dollar be better invested?

The best investment I ever made with one dollar was this spring when I sent to you for garden seeds. I wish you could see my garden. It is grand.—Mrs. David Horton, Caseville, Mich.

# PRINTED ERRORS IN CATALOG

**PAGE 75**—Price of Banner Verbena Collection should be only 25 cents.

**PAGE 78**—Price of New York Canna should be 15 cents each.

**PAGE 102**—Price of two-year-old plants of the Favorite Rose Collection should be \$1.60.

**PAGE 119**—Price of Floral Treasure Paeony should be 40 cents each.

**PAGE 123**—Grape Vine Bargain consists of four Concord, two Niagara, and two Agawan.

**PAGE 132**—Three bottom lines under Empire Exhibition Coop belong to description of Style AA.

# THEORY OF THE EARTH





1865

1916

# Fiftyone Years Successful Business!

Des Moines, Iowa, January, 1916.

## Greeting to Our Customers



Our annual greeting carries with it to all our friends and customers the sincere thanks of our firm for the generous patronage rendered the past year. The volume of trade continues to increase, and we are deeply indebted to our friends for this evidence of confidence and good will. We hope for your continued favors and will give you the best service possible, and our quality stock of CHOICE IOWA SEEDS. We hope to have liberal orders. Our business continues to grow, and we intend to keep it increasing by unceasing effort, and unwearied care in the conduct of all departments that we may merit by the great and widespread popularity of our house and goods the slogan we have chosen:

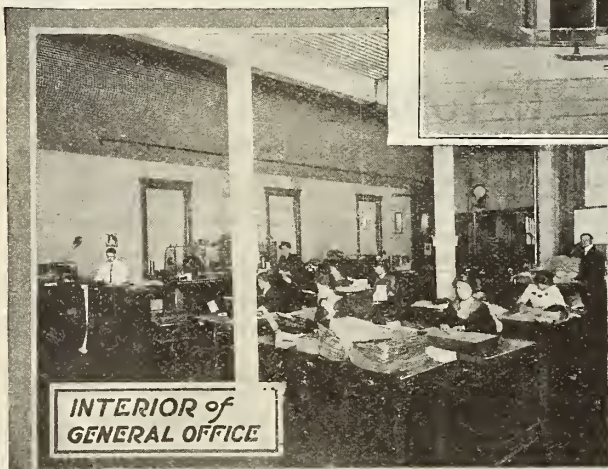
**"SEEDSMEN TO THE AMERICAN PEOPLE."**

### OUR GUARANTEE

You have to buy seeds without seeing them. If any seeds from us are not satisfactory upon arrival and inspection, return them to us and we will refund the money you paid for them. You are sole judge; all we require is that they shall be sent back to us within fifteen days from date of receipt by you. This applies to garden, farm and flower seeds. We cannot guarantee a crop, but we can and do guarantee to take seeds back that you yourself are not pleased with. The fifteen days will give you ample time to test them in any way you want. It will give you time to send samples for inspection, analysis or test to the State Seed Inspector or to the Agricultural Experiment Station. Our stocks will stand the closest scrutiny and we are ready to be judged accordingly.

### TO OUR NEW FRIENDS

Each year this catalogue goes to a great number of prospective buyers who have never traded with us and are not acquainted with our stocks or methods. To such we desire to say just a few words of solicitation. Read our catalogue carefully, weigh all the statements and send us a trial order. We will gladly leave in your hands the question of future and continued patronage. Each year our friends increase in number, and this increase comes because those who give us trial orders become firm friends and continuous patrons. We sell the best possible stocks at the lowest prices consistent with profitable merchandizing. Price, however, must be second to quality. You do not want poor seeds at any price. We affirm without qualification that our prices are as low as quality supplied will justify.



INTERIOR of  
GENERAL OFFICE



WORK ROOM AND  
MAIL ORDER DEPT.

Our city retail store building, showing interior views of office and mail order work room.

## THE ADDITIONAL PARTS OF OUR ESTABLISHMENT

**THIRTY-TWO GREENHOUSES** erected during the past few years are devoted to growing plants for the mail order trade, and contain a greater variety of plants than any other greenhouse establishment in the west. They are located convenient to the electric car line, fronting five blocks on 31st street, from Center street north to Kingman Boulevard, one of the finest driving streets in the city. Here we devote fully twelve acres to flowers, making the finest display to be found in the west.

**WHOLESALE BUILDING** is located at 208-210-212 South Eighth street, about eight blocks from our store. The railway tracks beside the building give us excellent facilities for handling carload lots, and we are centrally located between various freight depots so that all shipments can be made promptly. Our machinery is operated by six electric motors, and our mills for cleaning seed cannot be surpassed. Most of our employes have been with us many years, and no "green hands" handle bulk seeds.

**THE WAREHOUSE** on South Fifth street we have occupied for many years for storage purposes only. Large lots of seed which come in after harvest are thoroughly cleaned and then put away in this building for the spring trade.

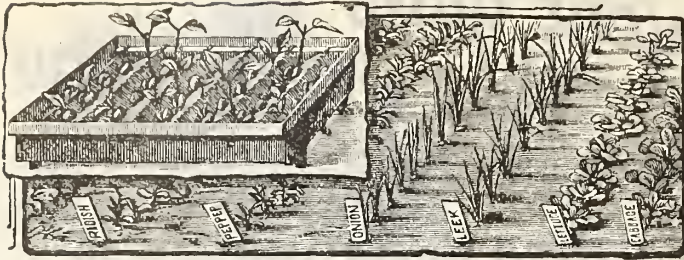
**SEED CORN HOUSE.**—We have a very large trade in seed corn and to care for it properly we erected a large building on our seed farm at Altoona. We now have capacity for 25,000 bushels of seed corn, every ear of which can be given the personal inspection of an expert.

**GRAIN ELEVATOR.**—At Altoona, with 12-bin capacity, for caring for our seed grain, the demand for which is expanding to enormous proportions. Photograph on page 37.

**SEED FARMS.**—It requires the seed crop from about 8,600 acres to supply our trade and the farms are widely isolated so as to avoid any mixtures. Some seeds cannot be grown to advantage here, and we contract with practical seed growers elsewhere to grow for us.



# VEGETABLE SEEDS



## SEED TESTING AND TRIALS

up to the standard of purity and excellence, and are of the highest vitality, and the result is that we rarely have complaints as our **Choice Iowa Seeds** are sure to please. The vegetable seed department is under the personal supervision of the president of our company. He places the contracts, inspects the growing crops, superintends the farm operations in summer and during the busy months in spring he gives personal oversight to the order filling department.

## SEEDS BY PARCELS POST

**BE SURE AND ADD ONE POUND ADDITIONAL TO COVER  
WEIGHT OF PACKING**

Many of our friends will prefer to have their seeds come by parcel post rather than by express. There is not much difference in the cost of transportation by these two methods, but if you want the seeds to come by mail you must send postage, because it must be prepaid. We submit herewith a table showing the postage per pound to each state. This is figured in the way to be most easily understood by our friends. The only thing to remember is to add one pound over the actual amount of seeds you order to cover the weight of packing. For example, you live in Alabama and you order three pounds of Gradus peas by parcel post. You will add 24 cents to the price quoted in the catalogue. If you live in Illinois and want a peck of peas by parcel post, add 64 cents to the price in the catalogue.

If the postage you send is more than is necessary the surplus will be returned to you inclosed in a small envelope within the package. If you do not send postage we will take it for granted you want the goods forwarded by express or freight.

Remember that we pay the postage on garden seeds ordered by the packet, ounce, quarter pound or pound, no matter what the cost; but on larger quantities postage must be added if we are to send them by mail.

**OUR POSTAGE RATE FROM DES MOINES TO ALL IOWA POINTS IS ONE CENT PER POUND.**

STATE	Postage Per Lb.	STATE	Postage Per Lb.
Alabama	6 cents	Missouri	4 cents
Alaska	12 cents	Montana	8 cents
Arizona	8 cents	Nebraska	4 cents
Arkansas	4 cents	Nevada	8 cents
California	10 cents	New Hampshire	8 cents
Canal Zone	12 cents	New Jersey	8 cents
Colorado	6 cents	New Mexico	8 cents
Connecticut	8 cents	New York	8 cents
Delaware	6 cents	North Carolina	8 cents
Dist. Columbia	6 cents	Ohio	6 cents
Florida	8 cents	Oklahoma	4 cents
Georgia	6 cents	Oregon	10 cents
Guam	12 cents	Pennsylvania	6 cents
Hawaii	12 cents	Porto Rico	12 cents
Idaho	8 cents	Rhode Island	8 cents
Illinois	4 cents	Samoa	12 cents
Indiana	4 cents	South Carolina	6 cents
Kansas	4 cents	South Dakota	4 cents
Kentucky	6 cents	Tennessee	6 cents
Louisiana	6 cents	Texas	8 cents
Maine	8 cents	Utah	8 cents
Maryland	6 cents	Vermont	8 cents
Massachusetts	8 cents	Virginia	6 cents
Mexico	12 cents	Washington	10 cents
Michigan	4 cents	West Virginia	6 cents
Minnesota	4 cents	Wisconsin	4 cents
Mississippi	6 cents	Wyoming	6 cents

## SUGGESTIONS TO CUSTOMERS

**Our constant aim is to make the highest quality the first consideration, and next to put our prices as low as good seed can be sold**

**Order Early:** The best time to order is just as soon as you receive this catalogue, as we can always give your orders more of our personal attention if they come in before the rush of the spring trade. Please use the order sheet, as it makes it more convenient for us in filling orders. You will note there are two order sheets enclosed: one for seeds, tools and miscellaneous goods, and the other for plants, bulbs and nursery stock. If you will use them as intended, it greatly facilitates the filling of your orders. Terms of purchase are cash with order, as we keep no book accounts. In our mail order department, and the expense of sending goods C. O. D. is quite large. Postage stamps received the same as cash.

**Shipping:** There are five express companies and fifteen railroad lines at Des Moines, so that quick shipments can be made to any town in the United States.

**Charges Prepaid:** All Vegetable and Flower Seeds, Bulbs and Plants, except those noted, are sent prepaid by mail or express by the quickest and most direct routes, unless ordered otherwise, and we guarantee the safe arrival. Seeds sold by the peck or bushel, Field Seeds, Potatoes, Implements and other heavy goods are sent by freight or express, customers paying charges. Remember seeds go at special rates by express.

**Seeds by Mail:** Seeds, plants and bulbs may be sent by Parcel Post. The table of rates above gives amount of postage required on quantities over one pound. Miscellaneous merchandise may go by Parcel Post, and mailing weight is given on items of this kind.

**Delivery:** The point of delivery of all goods is on cars at Des Moines. When we quote a delivery price it means simply that we prepay the freight, express charges or postage.

Many of our farther customers live at railroad stations where there are no agents. In such cases we must request them to send sufficient money to prepay freight charges on heavy shipments; also in cases where perishable or other goods are ordered to be sent by freight or express to such great distances that cost of transportation will nearly or quite equal the value of the goods.

**Discounts:** We have this year made the prices in this catalogue as low as our high grade seeds can be sold, and we can give no discounts. In ordering seeds in bulk you may deduct ten cents per pound on vegetable seeds, such as are listed prepaid, if you are willing to have them sent by express or freight at your expense.

**Premiums:** Each year we put up thousands of packets of new or particularly desirable varieties of seeds for free distribution to our customers. We will send these out with the seeds ordered by you and will treat you liberally in this respect. We shall also try to please our plant customers by adding something to their order when shipping it.

**Our Responsibility:** As this book will probably go into the hands of some who are unacquainted with us, this question will naturally arise, and in answer to same we refer you, by permission, to the People's Savings Bank of this city, to the postmaster, or to any express company.

**What We Guarantee:** That all money sent to us for seed shall reach us if sent us by registered letter, postoffice or express money order, or bank draft, made payable to our order. That your order will be filled promptly and well. That goods ordered will reach you safely. Keep a copy of your order. Sometimes persons think they have ordered articles which they have omitted, and blame us for not sending them.

## About Warranting:

We thoroughly test all our seeds and nothing is sent out which we do not believe to be good in every respect. When it is considered how many are the contingencies on which the success of any crop depends, such as sowing too deep or too shallow, too wet or dry soil, unfavorable weather, insects, etc., our customers will readily see that it would be sheer folly for anyone to warrant seeds to produce a perfect crop, and we want it plainly understood that while we exercise great care to have all seeds pure and reliable, and also true to name, we do not give any warranty express or implied as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the seeds on these terms and conditions, they are to be returned, at once, and the money that has been paid for same will be refunded. No officer, agent or employee of this company is authorized to make any warranty whatsoever. However, we have so much confidence in our seeds that we hereby agree to refill any retail order for vegetable or flower seeds free of charge should they prove otherwise than as we represent them. We know of no responsible seed firm in the world which guarantees seeds any further than this. Compare with other seed catalogues and you will see that we are right.

**Market Gardeners** and others who buy vegetable seeds in bulk to the amount of \$5.00 or more are requested to send their list of seeds wanted to us and let us make special quotations.

**Plant Orders:** Orders for plants will be filled as early in the spring as we consider it safe to send them. If ordered for immediate shipment in severe weather they will be sent at purchaser's risk.

**Small Orders:** We take pains to fill orders promptly and correctly no matter if only for but one packet of seeds, but we request that plant orders amount to at least 25 cents, and nursery stock to at least 50 cents, as otherwise they are filled at a loss to us.

IF YOU ONCE PURCHASE VEGETABLE SEEDS OF US YOU WILL CONTINUE A PATRON. THE QUALITY INVITES CONFIDENCE.



## ASPARAGUS

(One ounce will sow forty feet of drill. For roots, see page 38.)

Easily grown and such a large quantity is produced on a small plot that every garden should contain a bed; ten feet square, requiring 50 plants, will give abundant supply for any ordinary family. Soak the seed four hours in tepid water; sow early in spring in rows a foot apart; keep clean by frequent weeding and hoeing. Ask for free circular giving instructions for making an asparagus bed.

**COLUMBIAN MAMMOTH WHITE.**—New and entirely distinct; produces shoots which are white and stay white as long as fit for use. Is more robust and vigorous, throws up larger shoots and fully as many as Conover's Colossal. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

**PALMETTO.**—Stalks frequently measure 2 inches in diameter, and even when 12 inches long are perfectly tender when cooked. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

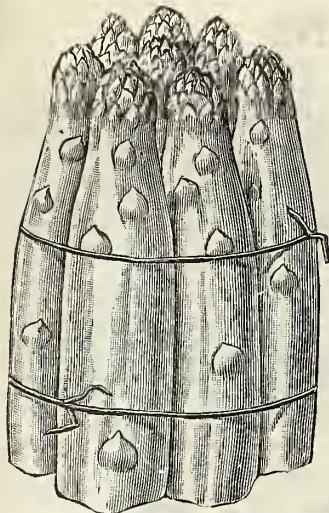
**CONOVER'S COLOSSAL.**—The standard variety. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

## ARTICHOKE

A great delicacy. A perennial producing large flower heads, which are the part eaten, the second season thereafter. The young stalks are also tied and blanched like celery, but are not equal to the flower heads. Cook like asparagus. Sow seed early in hotbeds or when weather becomes warm in rows 4 feet apart and 3 feet in the row. Started early sometimes blooms the first year.

**LARGE GREEN GLOBE.**—The best variety for general use; flower heads, which are the part eaten, the second season thereafter. The young stalks are also tied and blanched like celery, but are not equal to the flower heads. Cook like asparagus. Sow seed early in hotbeds or when weather becomes warm in rows 4 feet apart and 3 feet in the row. Started early sometimes blooms the first year.

LARGE GREEN GLOBE ARTICHOKE



COLUMBIAN MAMMOTH ASPARAGUS buds large; scales green; thick, fleshy. Pkt. 10c, oz. 35c, ¼ lb. \$1.

## BROCCOLI

(One ounce will produce about 3,000 plants.)

Growth and habit like cauliflower, except more hardy, and heads are not so compact; not desirable for warm or dry countries, but is of special value in the North. Cultivate and use same as cauliflower.

**EARLY LARGE WHITE.**—The most popular sort. Has medium sized, creamy white heads. Pkt. 5c, oz. 35c.

## BORECOLE, OR KALE

(One ounce will produce about 3,000 plants.)

Hardier than cabbage; excellent greens during winter and spring; splendid food for poultry. Cultivate like cabbage.

**EXTRA CURLED MOSSBACK.**—A most attractive variety; fine crimped leaves, light green, admirable for garnishing. Best cooking. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 85c.

**DWARF GERMAN GREEN, or Siberian.**—A very popular variety. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

**THOUSAND HEADED.**—Grown for forage, but is an excellent garden vegetable. Pkt. 5c, ¼ lb. 20c, lb. 50c.

## BRUSSELS SPROUTS

(One ounce for about 3,000 plants.)

Of the cabbage family, producing numerous heads on the stem, of most delicious quality, with cabbage-like head at top. Use and cultivate like winter cabbage.

**AMERICAN MAMMOTH.**—Greatly superior variety of American growth, which forms heads about 3 weeks earlier than other sorts. It makes stronger plants and more heads. Profitable for market gardeners. Pkt. 10c, oz. 35c, ¼ lb. \$1.

**ENGLISH.**—Pkt. 5c, oz. 15c, ¼ lb. 45c.

## CHUFAS

A nice little ground nut greatly liked by children. Its flavor resembles the coconut. Very prolific, a single one yielding 200 to 400 nuts growing just under the ground and easily reached by pigs and poultry if they have access. Grow best in light, sandy soil, well fertilized. Plant in April, 10 inches apart, in 2½-ft. rows. Cover lightly. Soak seed before planting if very dry. Pkt. 5c, oz. 10c, ¼ lb. 20c.



CHUFAS



EXTRA LARGE WHITE BROCCOLI



BRUSSELS SPROUTS

## CURIOUS VEGETABLES

**ALPINE STRAWBERRIES.**—If sown early will produce bearing plants first year. Grown in Europe, where they are ever-bearing, producing all summer. Pkt. 10c.

**FRENCH SORREL.**—Grown for and used as "greens." Has large light green leaves with mild acid flavor. Fine for salads. Pkt. 5c.

**EGYPTIAN LENTILS.**—Largely used in oriental countries as a principal article of diet. It was from these that the dish of pottage was made for which Esau sold his birthright to Jacob in Bible times. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

**ORNAMENTAL MICE.**—Vegetable curiosity; native of Central Africa. Small, neat growing vine; bears numerous oval fruits, clear green in color, and always completely covered with long, light green spines or hairs. Nice to pickle. Pkt. 10c.

**CATERPILLARS.**—Prostrate creeping plants with small yellow flowers, changing into "Vegetable Caterpillars." Grown as curiosities; put into salads or pickles. Pkt. 10c.

**SNAILS.**—Another singular variety having most oddly twisted seed pods resembling snails. Pkt. 10c.

**COTTON.**—Grown mainly as a curiosity in the North. Start seed early and transplant to the field about May 15. Has showy, large flowers, followed by boll of pure white cotton which interests everyone. Pkt. 5c, oz. 10c.

**CARDOON.**—A plant grown for its large, thick leaves. Blanched and used like asparagus. Pkt. 10c.

**MARTYNIA.**—Also called "Devil's Claw" and "Unicorn Plant." A large ornamental plant, bearing beautiful flowers which are succeeded by large seed pods which when young are fine for pickling. Pkt. 5c, oz. 30c.

**SEA KALE.**—Is grown and used like Chard Beets, except it is perennial and when established can remain for years without renewal. Pkt. 5c, oz. 30c.

**SCOLYMUS.**—Grown for the roots, which are used like salsify. Roots of ten 10 to 12 in. Can be dug and stored for winter. Pkt. 10c.

**WONDERBERRY.**—Largely advertised. We offer it as a novelty. Different from our Garden Huckleberry, which we do not think it equals either in productiveness or edible value. Fruits about as large as dried peas, blue black in color, with a peculiar flavor relished by some. Pkt. 10c.



ALPINE STRAWBERRY



EXTRA CURLED MOSSBACK KALE

## COLLECTION OF ODD VEGETABLES.

Persons exhibiting at fairs should grow some to help make attractive showing. Have something different.

Any of the following 10c per pkt.: Cardoon, Scolymus, Ornamental Mice, Caterpillars, Snails, Mixed Peppers.

Any of the following at 5c per pkt.: Martynia, French Sorrel, Sea Kale, Ground Cherry, Chufas, Brussels Sprouts, Swiss Chard, Endive, Okra, Vegetable Marrow, Kohl Rabi, Garden Lemon, Vine Peach, Pomegranate, Mixed Gourds and Cotton. The entire collection of 22 pkts., \$1.00.



MARTYNIA



# BEANS

## DWARF BUSH VARIETIES

(One quart will sow 100 feet of drill.)

Dwarf or bush beans require no support and should be planted in drills an inch and a half deep and drop the beans three inches apart in drills. Beans are tender annuals and cannot be planted until danger of frost is past. A sandy loam is the best. Packages contain about 1½ oz. of wax beans, and about 2 oz. of green pod sorts. Prices include postage at pound rates. Larger quantities than one pound to go at customer's expense for transportation. If wanted by parcel post, add postage according to table on page 2. All varieties of beans are scarce.

Write for Prices on Large Quantities.

## WAX POD SORTS

**IMPROVED GOLDEN WAX.**—In spite of all the new sorts of beans being introduced every year, our trade calls for more Golden Wax than any other variety. This great popularity is due largely to the fact that the variety we have is a great improvement on the old Golden Wax, having larger pods and being more prolific. This improved stock is one of the handsomest beans we have ever seen, the pods a dark, rich golden yellow color and of perfect shape. For family or market you make no mistake in planting them. Pkt. 5c, ¼ lb. 10c, lb. 40c, postpaid. By express, 3 lbs. 90c, ½ pk. \$2.00, pk. \$4.00.

**GERMAN BLACK WAX.**—This strain of Black Wax is in our opinion superior to that generally offered. Pods tender, round, fleshy and stringless. Pkt. 5c, ¼ lb. 10c, lb. 40c, postpaid. By exp., 3 lbs. 90c, ½ pk. \$2.00, pk. \$4.00.



IMPROVED GOLDEN WAX

**DAVIS WHITE WAX.**—A new white, rustless, productive, wax-podded bean; pods flat, very long, white, straight and handsome; seeds clear white; excels all others in hardiness and productiveness. One of the best for shipping as snap beans and of the greatest value as a market variety. The length, uniformly perfect shape and fine color of the pods and the clear, white seed, make this one of the best for canners. It is just what they want: a long, straight, clear white pod which does not discolor in canning. Pkt. 5c, ¼ lb. 10c, lb. 40c, postpaid. By express, 3 lbs. 90c, ½ pk. \$2.00, pk. \$4.00.

**WARDWELL'S KIDNEY WAX.**—One of the earliest and most productive of all wax beans. Yields large crop of long, nearly straight, broad and creamy white, handsome pods. They are of good quality and always command a ready sale. Pkt. 5c, ¼ lb. 10c, lb. 40c, postpaid. By express, 3 lbs. 90c, ½ pk. \$2.00, pk. \$4.00.

## GREEN POD SORTS

**STRINGLESS GREEN POD.**—A stringless green pod bush bean. Surpasses all others in crisp, tender flavor. Finely shaped, long green pods, absolutely stringless; ready to market two weeks earlier than the Valentines. Of immense value, not only to market gardeners but also to amateurs who seek a rare quality early bean for home use. Pkt. 5c, ¼ lb. 10c, lb. 40c, postpaid. By express, 3 lbs. 75c, ½ pk. \$1.75, pk. \$3.00.

**LONG YELLOW SIX WEEKS.**—Very early and prolific; long, green, tender, flat pods; matures quickly. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 65c, ½ pk. \$1.55, pk. \$2.50.

**IMPROVED EARLY VALENTINE.**—For many years the standard green pod variety. Very popular. About ten days earlier than the common Early Valentine. In addition, is more robust and vigorous and produces the true, round, curved pods very abundantly. Unexcelled in quality and uniformity of ripening; nearly the whole crop can be taken at one picking, usually within thirty-five days after planting. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 65c, ½ pk. \$1.45, pk. \$2.50.

**REFUGEE, or Thousand to One.**—An old fashioned green pod variety producing splendid pods in wonderful abundance. It is very tender and cooks quickly. In this year of scarcity in seed beans, the Refugee offers a splendid sort at a low price. Pkt. 5c, oz. 10c, lb. 30c, postpaid. By express, 3 lbs. 65c, ½ pk. \$1.55, pk. \$2.50.

**LARGE WHITE MARROW.**—Fine as shelled bean. Beans are ivory white and double as large as Navy. Especially fine if used as soon as ripe, boiled or baked. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 50c, ½ pk. \$1.00, pk. \$1.75.

**IMPROVED NAVY, or Boston Pea.**—An improvement over the old-time Navy Bean. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By exp., 3 lbs. 50c, ½ pk. \$1.00, pk. \$1.75.

**PROLIFIC TREE, or California Branch.**—A valuable variety for field culture. It grows about 20 inches high, has stiff, upright branches and bears immensely; sometimes yields 45 bushels per acre. The beans closely resemble White Navy and are marketed in the dry state on equality with that variety. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 50c, ½ pk. \$1.00, pk. \$1.75.

I have always been well pleased with seeds received from you and can recommend them to any one desiring first-class seeds.—Mrs. Elsie Ratliff, Geneva, Iowa.

I wish to thank you and tell you what I think of your seeds. I have the acknowledged finest garden in all our neighborhood.—Mrs. A. J. Darrow, Dixon, Illinois.



IMPROVED VALENTINE



STRINGLESS GREEN POD

PLEASE USE THE YELLOW ORDER SHEET FOR SEEDS, AND THE GREEN ONE IN ORDERING PLANTS AND NURSERY STOCK.





HENDERSON'S DWARF LIMA.

## BEANS--CONTINUED

**BURPEE'S BUSH LIMA.**—A dwarf or bush form of the true large Lima which is of great value. They grow from 18 to 20 inches high, of stout, erect growth, yet branching and vigorous; an immense yielder. Does not always mature dry shelled beans here, but yields a crop of green ones. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 50c, ½ pk. \$1.00, pk. \$2.00.

**HENDERSON'S BUSH LIMA.**—Grows in compact bush form, producing enormous crops of delicious Lima beans which can be as easily gathered as the common bush bean; is at least two weeks earlier than any of the climbing Limas; produces a continuous crop from the middle of July until frost. Enormously productive.



BUPEE'S BUSH LIMA

**CHINESE SAGO BEANS.**—A very small variety from China, which is quite a curiosity. Pkt. 10c, ¼ lb. 20c, lb. 50c, postpaid.

**SOY BEANS AND COW PEAS** for forage and hay crops are listed on page 56.

Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By exp., 3 lbs. 50c, ½ pk. \$1.00, pk. \$1.75.

**ERFURT EARLY PROLIFIC BROAD.**—We have inquiries for the English Broad Beans, but the leading variety, the Broad Windsor, does not succeed well in this country. The Erfurt is a greatly improved variety, very much earlier, more prolific and resists drouth better than any other kind. This new sort has from five to nine beans of large size and delicate flavor. The plant is of robust, upright growth, entirely different from any ordinary variety of beans. Pods measuring 10 to 12 inches in length are not uncommon and they are broad and of handsome appearance. Plant in rows about 2 feet apart, and 6 inches apart in the row, covering 1½ to 2 inches deep. Top of stalk should be nipped off as soon as plants begin to flower, as this induces earliness. Pkt. 10c, ¼ lb. 15c, lbs. 40c, postpaid. By express, 3 lbs. 75c, ½ pk. \$1.40, pk. \$2.50.

## POLE BEANS

Plant from five to six seeds in each hill, about two inches deep; one quart will plant 100 to 150 hills.

**OLD HOMESTEAD.**—Is also known to some of our customers as Kentucky Wonder. Increasing in popularity each year. We recommend it as among the most productive varieties, while for snap beans it is unsurpassed in quality. If you can find any place for pole beans give this variety a trial. It has reached first place on the list solely on its merit as it is enormously productive, pods hanging in great clusters from top to bottom of pole. Entirely stringless; pods of silvery green color. Can be grown with corn to good advantage. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 50c, ½ pk. \$1.00, pk. \$1.75.



OLD HOMESTEAD

west and south, and is of good quality and a good yielder. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 50c, ½ pk. \$1.00, pk. \$1.75.

**GOLDEN CLUSTER WAX.**—Generally considered the best of all wax pole beans. It bears profusely its long, golden yellow pods in clusters of from three to six, from the bottom to top of pole, and continues in bearing from the middle of July till the vines are cut by frost. Pods are seven to eight inches long and three-fourths of an inch in width. They are quite flat but fleshy, absolutely stringless, very brittle and delicious. Crop very small this year and may not supply the demand. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 75c, ½ pk. \$1.45, pk. \$2.50.

**KING OF THE GARDEN LIMA.**—An improvement on the large White Lima, producing a continuous bloom and fruitage to the end of the season. Pods are of enormous size. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 50c, ½ pk. \$1.10, pk. \$2.00.

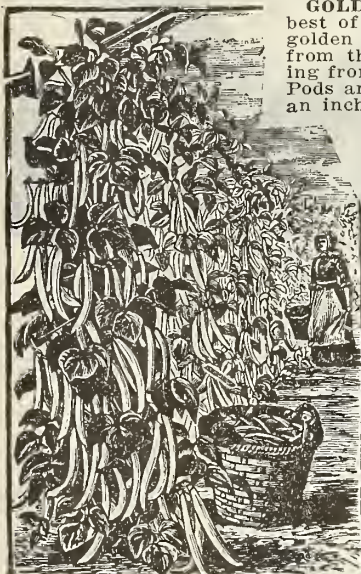
**YARD LONG.**—A great curiosity but withal an excellent variety. Produces pods 18 to 24 inches long. Specimens in our trial grounds last season reached the enormous length of four feet. Splendid for use in green state as the pods are exceedingly tender and of fine flavor. Pkt. 10c, ¼ lb. 25c, lb. 65c, postpaid.

**SCARLET RUNNER.**—Valuable for table use or as an ornamental vine. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 60c, ½ pk. \$1.25, pk. \$2.00.

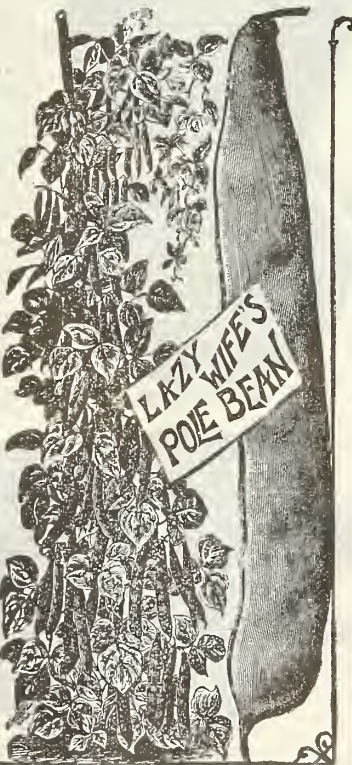
**ARABIAN RUNNER.**—Similar to the Scarlet Runner. Flowers white, striped scarlet. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid.

I received the last order in good shape and well pleased with it. Will favor you next spring.—Bertha Huston, Lenexa, Kansas.

We have never made any mistake in making purchases of Iowa Seed Co.—O. B. Barber, M. D., Zanesville, Ohio.



GOLDEN CLUSTER WAX



IT ONLY TAKES A LITTLE EXTRA WORK FOR POLE BEANS, THEY YIELD MUCH HEAVIER THAN THE DWARF KINDS.



## BEETS

(One ounce sows 50 feet of drill; 4 to 6 lbs. for one acre.)

For early, sow as soon as ground can be worked, and about the middle of May for general crop, in drills 15 inches apart and 1½ inches deep. As the plants grow, thin to 6 inches in drills. Young plants make excellent greens. Seed will germinate more freely if soaked in warm water twenty-four hours before sowing; but care should be taken not to plant soaked seed in very dry ground. The soil should be a deep, rich loam.

**IMPROVED MARKET GARDENERS.**—Undoubtedly one of the best varieties ever introduced, and receives much praise from our customers each year. As will be noted by engraving, it is very symmetrical, with small tap root and but few fibrous roots. Unusually

CROSBY'S IMPROVED EGYPTIAN

small tops. Although on some soils the Egyptian can be marketed a few days before the Market Gardeners, still within a week it will be found larger than the Egyptian, while it continues to grow until late in the fall, attaining a large size, and making a good eating and selling beet for the winter. One sowing only is necessary to produce early beets for market and main crop for winter use, which is not the case with any other variety. Color deep blood red; fine grained and unsurpassed in quality. Summing it all up, for winter use. Owing to the small

**CROSBY'S IMPROVED EGYPTIAN.**—We believe this to be the earliest variety. Great improvement on the old Egyptian, being thicker, handsomer and more regular in shape, smooth with small tops and small tap root. Takes on its turnip shape and looks well even in early stages of growth. It is preferred for forcing to any other variety, therefore this is a decided advantage for a market where beets are sold in bunches. Very popular with Des Moines market gardeners for this purpose. Being a rapid grower, it may be sown outside as late as July. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**EARLY CRIMSON GLOBE.**—A very early variety, of spherical form. Skin very smooth and it is as handsome a beet as you can imagine. It is of rich, deep red color, shading to purple. Its flavor cannot be surpassed. When cooked it is of even, dark color throughout, and is attractive on the table. Of uniform shape and size. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**ECLIPSE.**—This variety has become exceedingly popular and is one of the best early sorts. It possesses all qualities

requisite in a first-class beet, and is of uniform globular shape. Roots a bright, glossy red, fine grained and delicious. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

**DEWING'S IMPROVED BLOOD TURNIP.**—Improvement on the old Early Blood Turnip. Globe-shape, deep blood red color, fine flavor, a good seller and generally considered the most desirable variety for main crop and winter use. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

**GOLDEN GLOBE.**—A choice European variety fully equal, and by many considered superior to the red sorts in sweetness and flavor, but both the skin and flesh are of bright yellow color. When cut up in a dish with the red beets, they make a handsome contrast. They mature early and are so sweet and nice that they should become popular. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**DETROIT DARK RED.**—One of the best varieties grown for main crop. Its roots are round, very smooth, of good marketable size, and for table use, no variety can excel it in fine quality. The skin is deep blood red; the flesh is also dark red and is sweet and tender. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

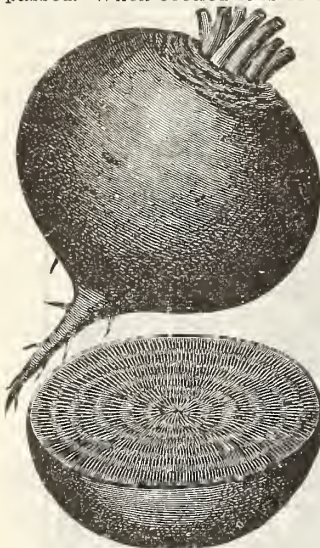
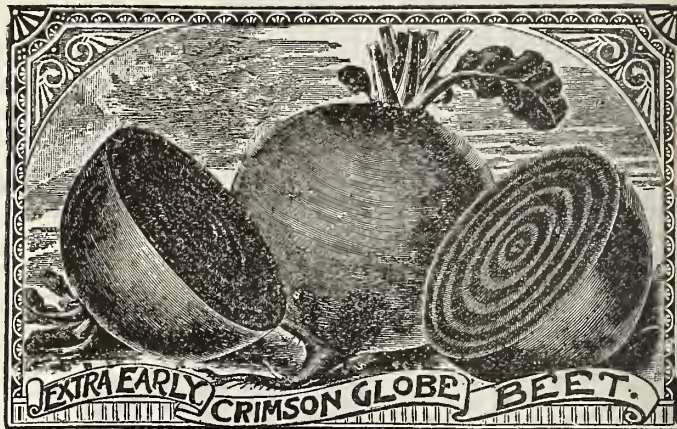
**LONG DARK BLOOD.**—Our stock of this standard sort is greatly improved, smooth, sweet and tender. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

**MIXED TABLE BEETS.**—Containing several varieties which will mature in succession so that one planting will give a supply all summer. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

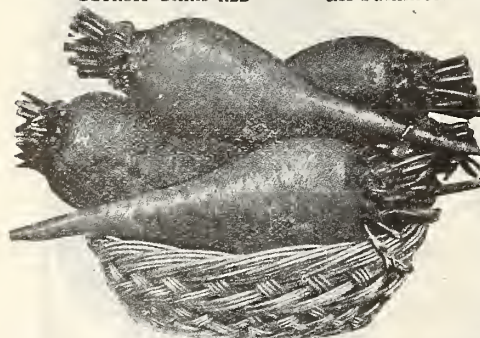
### GIANT LUCULLUS CHARD.

—Chard beets are growing in popularity. As two different dishes can be prepared from a single plant its utility is at once apparent. By noting our illustration it will be seen that the thick, broad stalks are as large as rhubarb. They are prepared and served in the same manner as is asparagus. The leaves are used for "greens," and are considered by a great many superior to spinach for this purpose. When the plants are grown on rich soil, enormous stalks and leaves are produced. These are exceedingly tender and are very easily prepared. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

I find your seeds as satisfactory in this climate as I did back East. They are the best I ever used.—Mrs. S. S. Foster, Mendota, California.



DETROIT DARK RED



LONG DARK BLOOD



GIANT LUCULLUS CHARD BEET

**SWISS CHARD, or Silver Beet.**—The dark green leaved variety. Is superior to common beet for greens. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

GROW MANGELS, CARROTS, RUTA BAGAS AND OTHER ROOTS FOR YOUR LIVE STOCK. THEY MAKE EXCELLENT FEED.

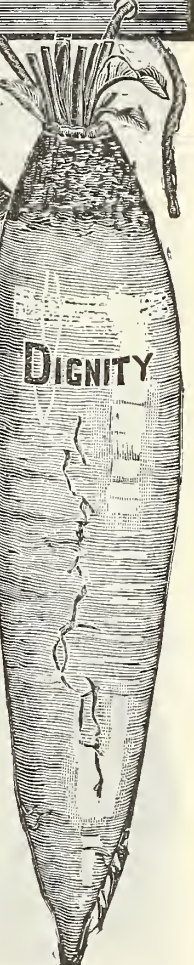


# MANGEL & SUGAR BEETS FOR STOCK.

**EXTENSIVELY** grown in all parts of the country for feeding stock. Sow in April or May in drills three feet apart, and thin to ten inches in the row. If your soil is deep and mellow, try the long varieties; if shallow the round kinds will do better. No crop pays the farmer and stockraiser better than mangels; 1,000 bushels to the acre is an ordinary yield, while, with good culture, 2,339 bushels have been grown to this amount of ground. It costs, counting labor, use of ground and everything, less than \$50 to raise an acre of mangels and gather and store them. This, for an ordinary yield, is a cost of only five cents per bushel. They make the cheapest of foods for all kinds of live stock—horses, cattle, sheep, pigs, chickens, etc. Easily grown, and they help to keep stock in good condition and free from disease. Dairymen claim that a bushel of mangels and a bushel of corn are worth more than two bushels of corn. Full directions for culture and storing mangels, will be sent on application. Use five pounds to an acre. Prices quoted by express are not prepaid.



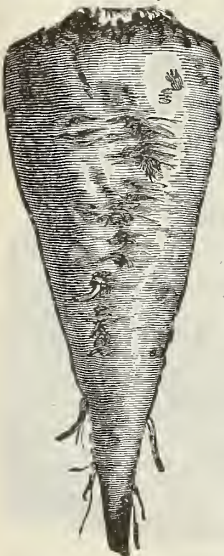
**PRICES**  
are very much  
lower than  
last year, and  
a good crop al-  
so tends to ex-  
cellent quality



## COLLECTION —OF— MANGELS.

One ounce each  
of the eight varie-  
ties of Mangels and  
Sugar Beet for  
35c. ¼ lb. of each  
\$1.00 postpaid; one  
pound of each not  
prepaid, only \$2.65.

**MAMMOTH GOLDEN GIANT.**—An improvement on the long yellow mangel, being of considerably greater size, more than half above ground and of a more grayish or rather russet yellow. Remarkably even in shape, rather elongated, of vigorous growth; has a fine neck and very smooth skin; flesh white, firm and sweet; much liked by cattle. It is a most excellent keeper; yields 40 to 60 tons per acre. Oz. 5c, ¼ lb. 15c, lb. 50c. By express, not prepaid, 5 lbs. for \$1.75.



**CHAMPION YELLOW GLOBE.**—The finest type yellow globe in cultivation. Roots immense size, fine shape, small tap root, neat top. Flesh being very firm and fine grained renders it an excellent keeping variety. Well adapted to shallow soils and has a record of producing **100 TONS PER ACRE**. This immense crop was grown by sowing seed in drills 14 inches apart and thinning to 10 inches in the row. Our seed of this variety is particularly choice. Per oz. 5c, ¼ lb. 15c, lb. 50c. By express, 5 lbs. or more at 35c per lb.

**GIANT SLUDSTROP.**—This is a variety of exceptionally even growth, showing careful production of stock seeds for many years. Color is reddish yellow, excellent in shape, which resembles Golden Tankard, and is superior to that popular sort in every way. Contains more sugar, grows larger, more above ground and is therefore easier to harvest. It is the best of all mangels for feeding purposes. Per oz. 5c, ¼ lb. 15c, lb. 50c. By express, 5 lbs. or more at 35c per lb.

**DIGNITY LONG RED.**—Improvement on the Mammoth Long Red by careful selection for a number of years. Stands head and shoulders above all other varieties of mangels; unexcelled for yielding and feeding qualities. Grows to a very large size, weighing from 20 to 50 lbs., and will yield 50 tons per acre with ordinary good cultivation and if you want large crops of large mangels of good quality, don't fail to try Dignity. It is very uniform, smooth and of good shape. Should be grown on deep, loose soil. Per oz. 5c, ¼ lb. 15c, lb. 50c. By express, 5 lbs. at 35c per lb.

**GIANT HALF SUGAR MANGEL.**—A hybrid or cross between the Mammoth Long Red and Sugar Beet, and for our own feeding we have found it superior to either. Being sweeter, both cattle and hogs relish them greatly. Per oz. 5c, ¼ lb. 15c, lb. 50c. By exp., 5 lbs. or more at 35c per lb.

**GOLDEN TANKARD.**—Best for dairy farming. Considered indispensable among English dairy farmers; it is stated by them they are able to obtain a higher price for milk when feeding cows on Golden Tankard. Sheep thrive on it. Other mangels cut white, circled with yellow, but this is of a rich, deep yellow throughout. Early, hardy, a heavy cropper, and on account of shape the roots can grow close in rows. Oz. 5c, ¼ lb. 15c, lb. 45c. By express, 5 lbs. or more at 30c per lb.

**KLEIN-WANZLEBEN SUGAR BEET.**—This is the variety which is cultivated for the beet sugar factories, as it usually yields fifteen to twenty per cent of sugar. Root is of shape shown in our illustration, straight, tapering evenly and somewhat screw shape. Our seed is grown in Germany from beets which were tested as to per cent of sugar before setting out. The sugar makes it of great value for feeding. Per oz. 5c, ¼ lb. 15c, lb. 50c. By express, 5 lbs. at 35c per lb.

**LANE'S IMPERIAL SUGAR BEET.**—An improvement on the White French Sugar Beet, containing about 8 per cent of sugar. Greatly liked for stock feeding. Per oz. 5c, ¼ lb. 15c, lb. 50c. By express, 5 lbs. or more at 35c per lb.

KLEIN WANZLEBEN



# CABBAGE

(One ounce will produce about 3,000 plants. Set 8,000 to 10,000 plants per acre, of early sorts, and 6,000 of large, late kinds.)

No vegetable is of greater importance than cabbage, and compared with the cost of seed, there is more money in growing cabbage than any other crop. It does not pay, therefore, to take any risk in buying seed. We have had our cabbage seed grown by the same growers for about sixteen years past, and it has proven of uniformly excellent quality, so that we pride ourselves on having the purest and highest grade of cabbage seed that is offered, or at least it is surpassed by none. The cabbage requires a deep, rich soil and thorough working to insure good, solid, full-sized heads. Sow early sorts in hotbeds in February or March, or in open, shallow drills six inches apart. When the plants are four inches high transplant to rows three feet apart. Our packets contain about 800 seeds. Slug Shot and tobacco dust are used to kill insects and worms.

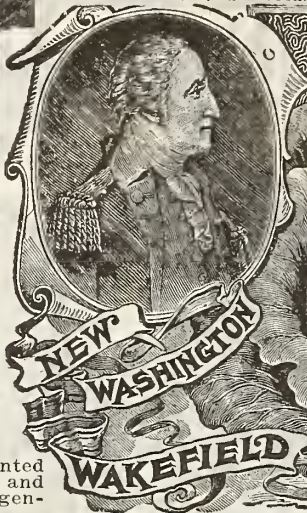


EXTRA EARLY EXPRESS

**EXTRA EARLY EXPRESS.**—The earliest variety in existence and produces rather small heads long before the Jersey Wakefield or other varieties have begun to head up. Heads solid, have few outside leaves, and can therefore be planted very close and yield a large crop. It is a most important variety for the gardener. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 45c, lb. \$1.50.

**BURPEE'S ALL-HEAD EARLY.**—This is the earliest of the flat-headed cabbages, of larger size than early varieties generally, of perfect shape and it makes exceptionally solid heads. It was originated by the late C. L. Allen, of Long Island, N. Y., but named by Mr. Burpee, who purchased the first crop and gave it his name. Our seed is grown from the original stock so that we have as good stock as can be purchased. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.00.

**WINNINGSTADT.**—A cone-shaped summer sort which can also be used for winter keeping if planted late. A sure header, solid and of excellent quality, and is generally preferred among cone-shaped sorts for general crop. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.



**EARLY JERSEY WAKEFIELD.**—Considered by many gardeners the very best first early variety. Of large size for so early a kind and is certainly deserving of its great popularity. Heads hard and solid, and have few outside leaves. Our seed is highest quality, American grown. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**NEW WASHINGTON WAKEFIELD.**—A grand variety, a trifle later than Jersey Wakefield; produces much larger heads, of perfect pyramidal shape, very solid, with few outside leaves. One cabbage grower, who is enthusiastic in its praise, says: "It is first in head, first in market, and first in the hearts of gardeners." It grows remarkably uniform, heads are of even size and shape. Unequaled for market or family garden. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.



COPENHAGEN MARKET

**COPENHAGEN MARKET.**—A splendid new early flat head cabbage. Matures almost as early as Jersey Wakefield, averages 10 lbs. in weight, has few leaves and is remarkably hard and solid. Grows compact, takes but little room and matures with a short stem. Has proven its excellence in four year trials. We tested it and proved it on our own farms before offering it to our trade. We recommend it without reservation. It is a carefully bred variety from Denmark and the type and quality are thoroughly fixed. Pkt. 10c, oz. 35c,  $\frac{1}{4}$  lb. \$1.15, lb. \$3.50.

**IMPROVED DANISH BALLHEAD, or Hollander.**—This variety has been selected and perfected for more than fifty years by the Danish gardeners. They grow it almost exclusively for winter cabbage, and annually export large quantities to London, Paris, and other cities. Heads round, good sized, solid and very fine grained. Has but few outer leaves. A good keeper, tender and crisp, with little waste heart. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**HENDERSON'S SUCCESSION.**—An excellent variety of large size and with flat head maturing in midsummer. It can be brought to perfection in the hottest weather or used as an autumn or winter crop. Heads 10 or 12 inches in diameter, frequently larger, average about 12 lbs. Many varieties are offered as a second early cabbage but we believe the Succession will prove first in general excellence. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**ALL SEASONS.**—(Vandergaw.)—Early, maturing a week or ten days after All Head Early; makes larger and harder heads than that sort, averaging ten to fifteen pounds in weight. Fine for summer market and heads are so large, thick and solid that it is excellent for keeping through the winter. For winter plant later than for extra early market. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.



HENDERSON'S SUCCESSION

YOU ARE CERTAIN TO HAVE GOOD CROPS OF FINE CABBAGE IF YOU PLANT OUR SEED. WE SELL NONE BUT THE BEST.



## CABBAGE--CONTINUED

**SUREHEAD.**—This popular cabbage is rightly named Surehead and never fails to make a remarkably fine, solid, large head with few outer leaves. Strong, vigorous grower; ripens late. First-class main crop sort. Is of the Flat Dutch type but heads are somewhat rounded in form. Equal to that well known sort in keeping qualities. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**PREMIUM FLAT DUTCH.**—This old and well-known variety is still the standard winter kind. Heads large, solid and first-class keeper. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**VOLGA.**—For uniformity in growth, shape of head and hardness we have never seen its equal in a large heading variety. Plant is nearly all head, having few outside leaves.

The heads are nearly as round as a ball, hard and solid as Danish Ballhead, much larger and heavier. In a field of three acres in Long Island there was not a single plant thrown out or one that showed any variation from the true type. Quality is very fine both for cooking and kraut. Can be set out in the middle of July in this latitude; will mature large, solid heads in October. Plants are so compact that they can be set out  $1\frac{1}{2} \times 3$  feet and will produce enormous crops on good land. Pkt. 10c, oz. 30c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.



VOLGA.

**IOWA SEED CO.'S SHORT-STEM DRUMHEAD.**—Our improved and selected strain which has greatly pleased thousands of our customers in the past, and so greatly is it improved that in a large field it is almost impossible to find a head that is not solid and well formed. For sureness in heading, regularity of growth, and even, large, solid heads, it far surpasses any other strain of late cabbage, ripening evenly, with very short stem or stalk, and large, thick heads of silky fine quality of best keeping properties. Almost all head and always sure to head. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

### RED AND SAVOY CABBAGE

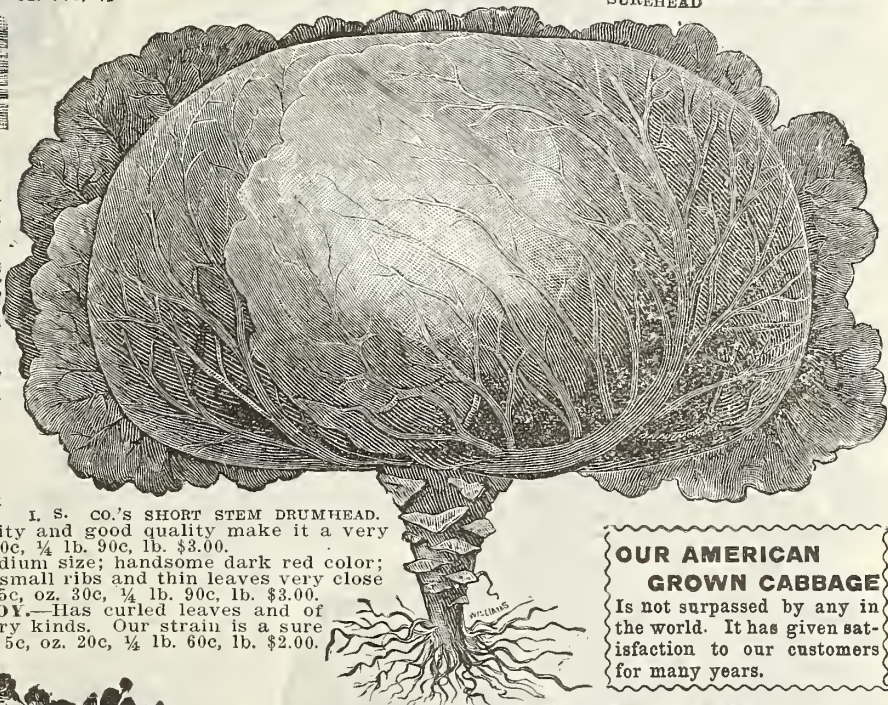
**MAMMOTH RED ROCK.**—Market gardening strain of unusual size, weight, color. Its large, size, solidity and good quality make it a very desirable red cabbage. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.

**ZENITH RED.**—Medium early, medium size; handsome dark red color; by far most attractive red sort. Its small ribs and thin leaves very close together make it extra solid. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.

**PERFECTION DRUMHEAD SAVOY.**—Has curled leaves and of finer flavor and quality than ordinary kinds. Our strain is a sure header; heads large and solid. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.



SUREHEAD



### OUR AMERICAN GROWN CABBAGE

Is not surpassed by any in the world. It has given satisfaction to our customers for many years.

## CAULIFLOWER

(One ounce will produce about 3,000 plants.)

One of the most delicious of vegetables. Cabbage and cauliflower requirements are quite similar, except that the latter need a cool and moist atmosphere and should be watered in dry weather. As the flower heads form, the large leaves should be broken down over them to shield them from sun and rain.

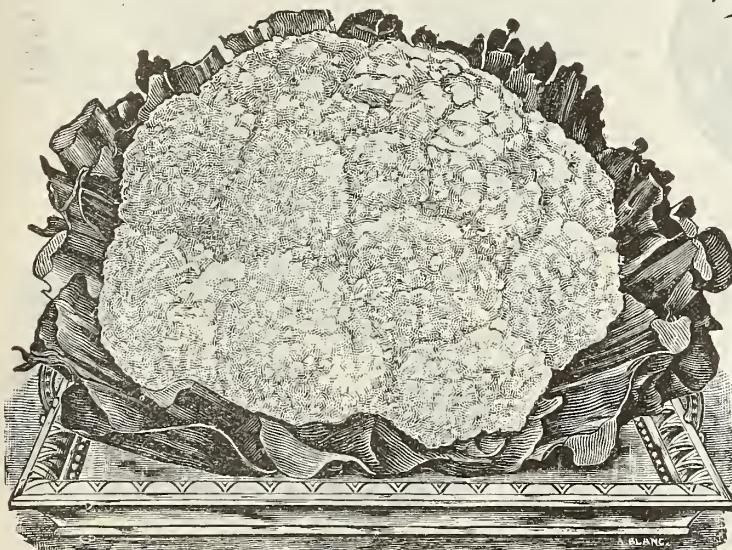
**DANISH GIANT.**—A strong competitor for first place. Heads extra large, pure white and very solid. Has large leaves which protect the head. About 10 days later than Snowball, but has proven more desirable for growing in open ground and does well in dry seasons when other varieties show failure, keeping plump and fresh during the hottest, driest weather. Pkt. 15c,  $\frac{1}{4}$  oz. 60c, oz. \$2.00.

**HENDERSON'S EARLY SNOWBALL.**—Considered the earliest and more certain to make a head than any other sort. Its dwarf habit and short outer leaves allow it to be planted as close as 18 to 20 inches apart each way, thus making it especially valuable to market gardeners. Our stock is extra choice, and cannot be excelled. We believe it to be the best in the world. Pkt. 15c,  $\frac{1}{4}$  oz. 60c, oz. \$2.00.

**EXTRA EARLY DWARF ERFURT.**—Is valuable for forcing. A very popular variety. First quality. Pkt. 10c,  $\frac{1}{4}$  oz. 50c, oz. \$1.75.

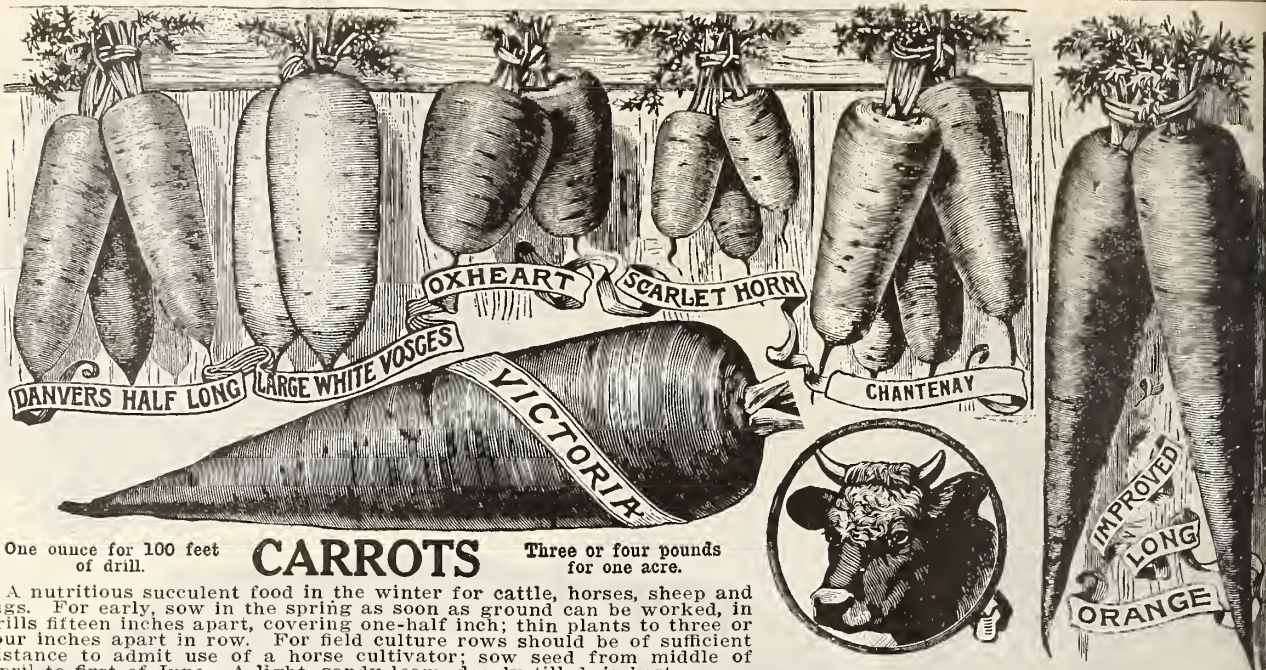
**EARLY PARIS.**—Well known small sort which is usually quite satisfactory. Pkt. 5c, oz. 50c.

**LENORMAND'S.**—A late variety of large size and fine quality. Pkt. 10c, oz. 60c.



HENDERSON'S SNOWBALL CAULIFLOWER.





One ounce for 100 feet  
of drill.

## CARROTS

Three or four pounds  
for one acre.

A nutritious succulent food in the winter for cattle, horses, sheep and pigs. For early, sow in the spring as soon as ground can be worked, in drills fifteen inches apart, covering one-half inch; thin plants to three or four inches apart in row. For field culture rows should be of sufficient distance to admit use of a horse cultivator; sow seed from middle of April to first of June. A light, sandy loam, deeply tilled, is best.

**EARLY SCARLET HORN.**—Favorite extra early variety. Very early. Orange-scarlet, fine grained, and agreeable flavor. Top small, short, stump-shaped root; grows well in shallow soil. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**CHANTENAY.**—Most desirable early variety for bunching and, although a trifle later than the first earlies, will yield so much handsomer roots and larger crop that everyone is pleased with it. Splendid variety for market or feeding purposes. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**IMPROVED LONG ORANGE.**—Desirable for garden or field. Grows to large size, averaging 12 inches in length and 3 inches in diameter at the top. This is the standard long variety, preferred to Victoria by some because of its deeper orange color. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. 90c.

**LARGE WHITE VOSGES, or Improved Short White.**—A stock variety which is enormously productive and easy to harvest. Color light green above ground, white below; flesh rich, white, solid and crisp; heavy yielding. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. 90c.

**DANVERS.**—Is in form about midway between the Long Orange and Shorthorn class, growing generally with a stump root. It is of a rich, dark orange color, grows to a large size, is smooth and the flesh very close texture, with little core. It is a first-class carrot for all soils. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**OXHEART, or Guerande.**—Most valuable variety in existence. Intermediate between Half-Long and Horn sorts; diameter 3 to 4 inches at neck; beautiful shape; rich orange color. Easily pulled, early as any, best quality all season. Has yielded 1,200 bushels per acre. Cut tops with scythe; pull with potato hooks. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**VICTORIA.**—Largest carrot grown, heaviest cropping and most nutritious; roots remarkably fine, light orange, symmetrical, excellent quality, of high feeding properties; good keeper; heavy cropper on all soils; best adapted for rich land; grows half as much weight again per acre as ordinary sorts; grows well out of ground; easily harvested. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. 90c.

## CELERY

One ounce will produce  
about 6,000 plants.

For first crop sow early in hotbeds, or in boxes in the house, in rich, moist soil, covering seed very lightly. For main crop sow in open ground in April. If the weather is hot and dry protect with light covering of hay or straw.

Stir soil when plants are well up; thin out and transplant so they stand about an inch apart in the row. If they grow too rapidly, shear tops off when about 4 or 5 inches high. For main crop set out between June 15th and July 15th, in rows 3 feet apart and 6 inches apart in the row. Firm the earth well when setting and they will root better. Keep clear of weeds; about the middle of August begin earthing up. Draw the soil up against plants with a hoe as closely as possible, firming it enough to keep plants in an upright position. Later the blanching process must be finished by digging soil from between rows and banking clear to tops on each side of the row.

**WHITE PLUME.**—Stalks, portions of the inner leaves and heart naturally white, and become fit for use by simply tying up closely with soft twine. More used than any other by gardeners. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**GOLDEN SELF-BLANCHING.**—By far the most popular sort; of medium earliness and

dwarf, compact habit, with thick, solid, heavily ribbed stalks which blanch easily to a clear, waxen yellow. Grown in rich, moist soil, the stalks are numerous and large with a solid heart of beautiful yellow. Pkt. 10c, oz. 75c,  $\frac{1}{4}$  lb. \$2.25, lb. \$7.50.

**ROSE-RIBBED SELF-BLANCHING.**—A sport from Golden Self-Blanching, having all its good qualities; the additional attraction of beautiful rose-tinted ribs make it very handsome. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.

**WINTER QUEEN.**—Finest dwarf celery. Large bunches of heavy stalks of even length;

best table quality. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 65c, lb. \$2.25.

**GIANT PASCAL.**—A selection from Golden Self-Blanching, of superior keeping qualities. Very large, solid, crisp; a rich, nutty flavor. Blanches easily. Heart golden yellow, very attractive. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.

**GIANT PRAGUE CELERIAC.**—Instead of producing long leaf stalks like ordinary celery it has a turnip-like root with true celery flavor. Largest, smoothest, best. Fine for salads and flavoring. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$1.75.



GIANT PRAGUE CELERIAC

THERE IS NOT ENOUGH ATTENTION PAID TO ROOT CROPS BY LIVE STOCK RAISERS. OF GREAT VALUE IN FEEDING.





EARLY EXPRESS.

**EARLY EXPRESS.**—We are pleased to introduce this most remarkable and valuable new variety, which originated with Mr. C. P. Coy. It is by all odds the earliest variety in existence. Quality is the very best, being free from any rank, strong flavor, and it is as fine a variety for slicing as any later sort. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.



**IOWA STANDARD.**—The handsomest of long green varieties. Color is beautiful dark green, and they do not turn yellow with age. Fruits measure 12 to 15 inches in length and are smooth and symmetrical. Flesh is firm, crisp, white, and the flavor is most excellent. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

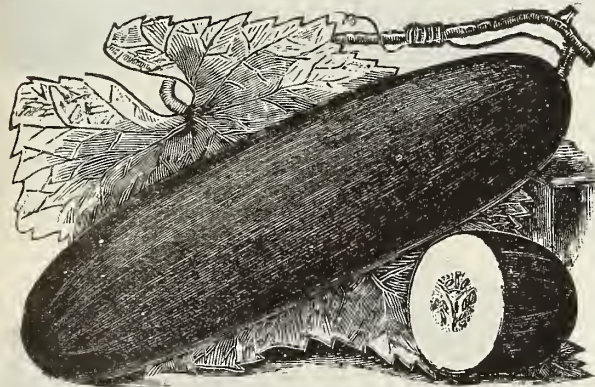
**IMPROVED CHICAGO PICKLE.**—Illustrated in lower right hand corner. A variety which originated with a leading pickle grower near Chicago; is considered the best variety there; very prolific; matures early, produces immense number of fine shaped pickles. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. 80c.

**EARLY CLUSTER.**—Slim form. Extra prolific, frequently setting in clusters of two and three. Fine for small pickles. If fruit is kept gathered, the vines will continue in bearing. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 80c.

**PERFECT WHITE SPINE.**—This improved strain is pronounced by good judges superior to all others. Fruit even and good size, straight, well formed and symmetrical. It is of uniform shape, making it unexcelled for pickling. Immensely productive and keeps a long time. See illustration in lower right hand corner. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**LEMON.**—As will be noticed from our illustration, it is round and about the size of a baseball. The fruits are produced in great profusion. Used for slicing or sweet pickling as any ordinary variety of cucumber, but have a flavor peculiarly their own, superior to any, being crisp and tender and having none of the bitter or acrid taste sometimes found in other cucumbers. Of best quality when the fruit begins turning yellow. Desirable for use as mangoes. Will be liked by all who try it. Pkt. 10c, oz. 25c.

**JAPANESE CLIMBING.**—The vines are of healthy, vigorous growth, with rich, dark green foliage, and throw out strong, grasping tendrils, enabling it to climb trellis, wire netting, brush or any other suitable support. It is of large size, cylindrical, flesh pure white, skin dark green, turning to brown and netted when ripe; fine for slicing. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.



EMERALD

**ROLLISON'S TELEGRAPH.**—An English forcing variety bearing fruits 14 to 16 inches long. Dark green, smooth, and of perfect shape. Much used and greatly liked by market gardeners for hotbed and greenhouse growing in winter and early spring. Pkt. 15c, oz. \$1.00.

**WEST INDIA GHERKIN, or Burr.**—This is a peculiar shaped, very small variety of cucumber which makes a handsome pickle of first-class quality. When ready it is about as large as an English walnut, partly covered with spines, from which it takes the name 'Burr' cucumber. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 65c.

**SNAKE.**—The cucumbers grow curled up like a snake with the head protruding, and some are six feet in length. Are grown chiefly as a curiosity and for exhibition. In pkts. only. Per pkt. 10c.

## CUCUMBER

(One ounce will plant 50 hills, two pounds will plant one acre.)

Cucumbers succeed best in a rich, loamy soil. For first early, sow in hotbeds, in berry boxes or in small flower pots, six weeks before they can be set out in open ground. When danger of frost is over transplant in hills four feet apart each way. For general crop plant in open ground in May, about twelve seeds in a hill. When danger of bugs is past thin to four strong plants in a hill. For pickling, plant in June. Sprinkle vines with plaster or air-slaked lime, or use Slug Shot, to protect them from bugs.



DAVIS PERFECT.

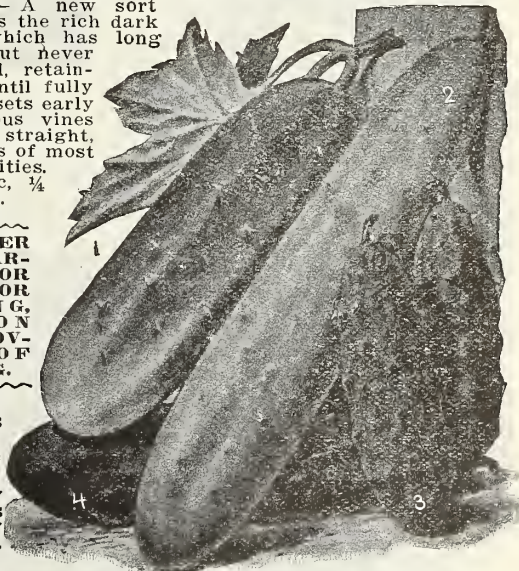
**DAVIS PERFECT.**—A grand new variety. Everyone who saw the crop last year says they never saw anything to equal it. Dark, glossy green, slim and symmetrical, with an average length of 10 to 12 in. They hold color till nearly ripe when they turn white without a yellow streak on them. Quality fine, as seeds are very soft when fit for table use. Very tender, brittle and of exceptional flavor. Early as earliest strain of White Spine and outyields all others. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

LEMON CUCUMBER.

**IMPROVED LONG GREEN.**—A standard sort. Vine vigorous and productive, forming fruit for the table nearly as early as shorter sorts. Produces very fine, firm fruit about 12 inches long. See illustration below. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

**EMERALD.**—A new sort which possesses the rich dark green color which has long been sought but never before obtained, retaining its color until fully ripe. Its fruit sets early and its vigorous vines abound in long, straight, handsome fruits of most desirable qualities. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

SEE OUR OFFER OF CHOICE GARDEN FRUITS FOR PICKLING OR PRESERVING, OFFERED ON THE BACK COVER PAGE OF THIS CATALOG.

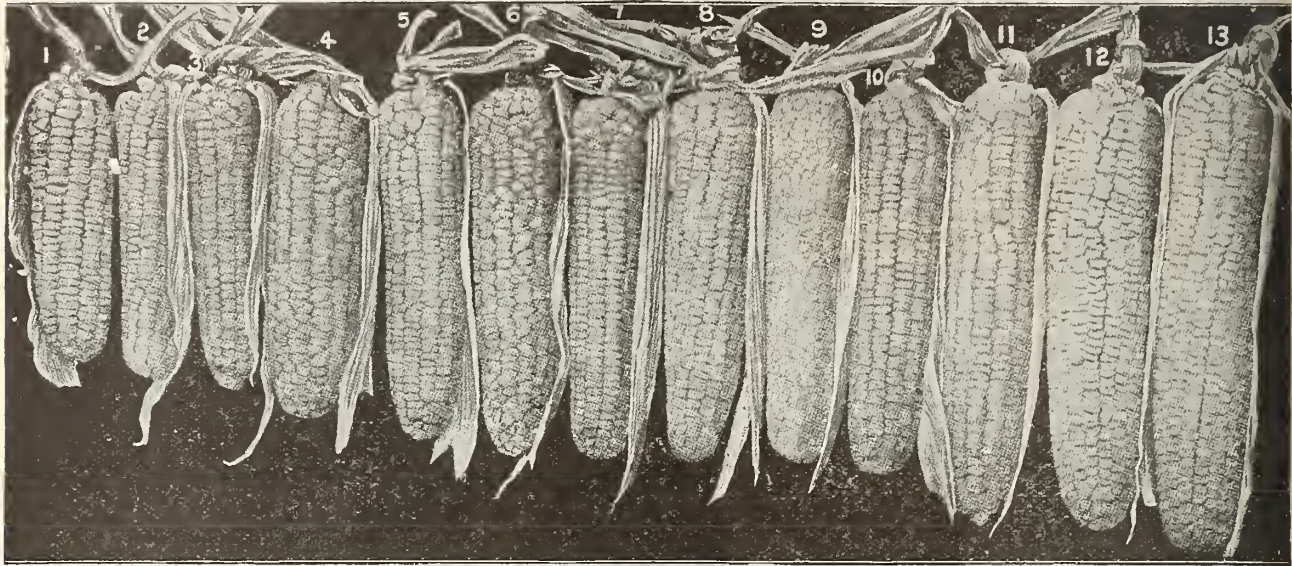


NO. 1—PERFECT WHITE SPINE. NO. 2—IMPROVED LONG GREEN. NO. 3—IMPROVED CHICAGO PICKLE.



# SWEET CORN

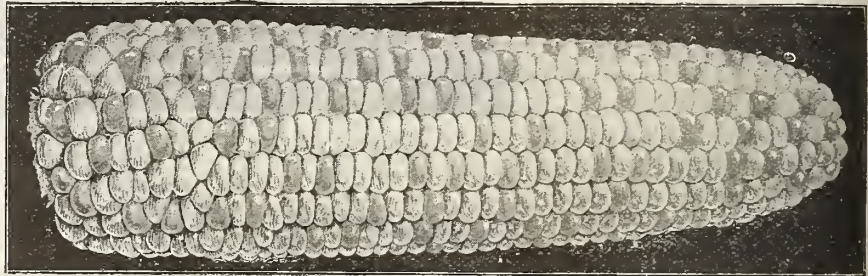
Plant as soon as the ground becomes warm in the spring, in hills about three feet apart, five or six grains to the hill, and when up thin them out, allowing three or four of the strongest plants to remain; give thorough cultivation. Our sweet corn is carefully grown and selected, only the choicest, most perfect ears being selected for seed. It is far superior to ordinary stock. We pay postage by the packet or pound. Quantities of three pounds or more go by express or freight at customer's cost for transportation or will be sent by parcel post if you send postage. See page 2.



**IMPROVED GOLDEN BANTAM.**—(See cut No. 1.)—This handsome new variety is one of the most delicious of all and it is generally believed to be the richest in flavor. Is extremely early, of hardy, vigorous growth, so that it can be planted quite early. The stalks grow only about four feet high but they bear two or three good ears five or six inches long, of handsome golden yellow color. In flavor it is quite distinct from the white sorts and some have called it as sweet as honey. Give it a trial. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 50c,  $\frac{1}{2}$  pk. 85c, pk. \$1.40, bu. (50 lbs.) \$4.50.

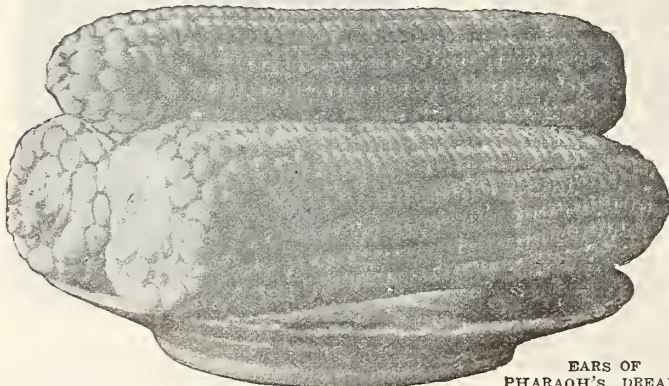
**PHARAOH'S DREAM.**—(No. 11.)—“And Pharaoh slept and dreamed . . . and behold seven ears of corn came up, upon one stalk, rank and good.”—Genesis 41:5. The most productive variety of sweet corn ever sent out. Does not come from an accidental sport, but from a cross of two well-known sorts and selected for a number of years. So frequently produces seven ears to the stalk it has been aptly named “Pharaoh’s Dream.” It begins bearing almost from the bottom and produces quite long ear stalks from each leaf joint. Ears are large and would sell for Stowell’s Evergreen in market. Corn is pure white, tender and of rich, delicate flavor, remaining a long time in an edible condition. Ears form in succession and make a constant supply all the season. Produces better when only one or two grains are planted in a hill. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, lb. 25c, postpaid. By exp., 3 lbs. 50c,  $\frac{1}{2}$  pk. 85c, pk. \$1.40, bu. (50 lbs.) \$4.50.

**GOVERNOR GILMAN.**—Named for Governor Gilman, of Minnesota, who produced it by crossing Golden Bantam on a larger early white variety of sweet corn of exceptional quality. Both green and mature corn show uneven dotting of white and golden grains as will be noted in our illustration of an ear in fit table condition. When cooked it presents a beautiful golden appearance. It is quality that has induced us to give it a prominent place in our list. There is no corn offered so sweet, so tender and fine flavored. When to quality we add good size, earliness and prolific yield we have in our opinion the best of all sweet corn. It will prove superior in every way. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 50c;  $\frac{1}{2}$  pk. 85c; pk. \$1.50.

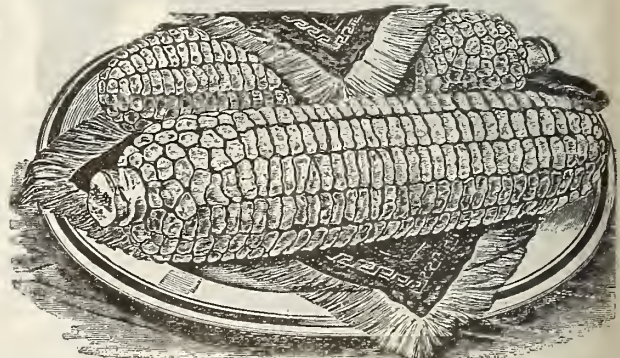


GOVERNOR GILMAN

**EARLY SUNRISE.**—(No. 5.)—Is a splendid new variety which we introduced. It is undoubtedly the best extra early corn for either private gardens or the public market. The ears are about six inches long, well filled out at the end, and husk covering so completely and being so tight as to prevent working of worms, which are so bad in Cory. Grains fairly deep and set in straight rows on a small white cob; very uniform and handsome. Market gardeners will find Early Sunrise a most profitable and satisfactory sort. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 50c,  $\frac{1}{2}$  pk. 85c, pk. \$1.40, bu. (50 lbs.) \$4.50.



EARS OF  
PHARAOH'S DREAM

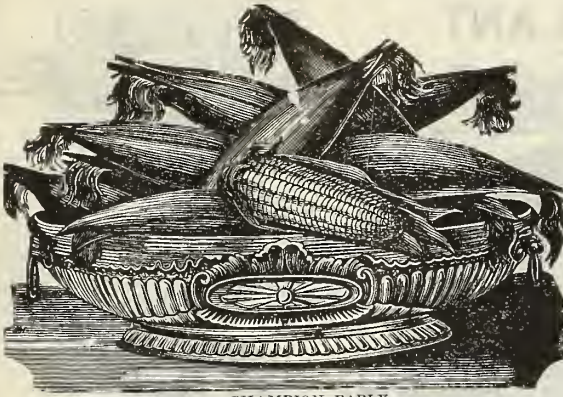


EARLY SUNRISE.

WE OFFER OUR CUSTOMERS THE CHOICEST STOCKS OF SWEET CORN AT VERY LOW PRICES, QUALITY CONSIDERED.



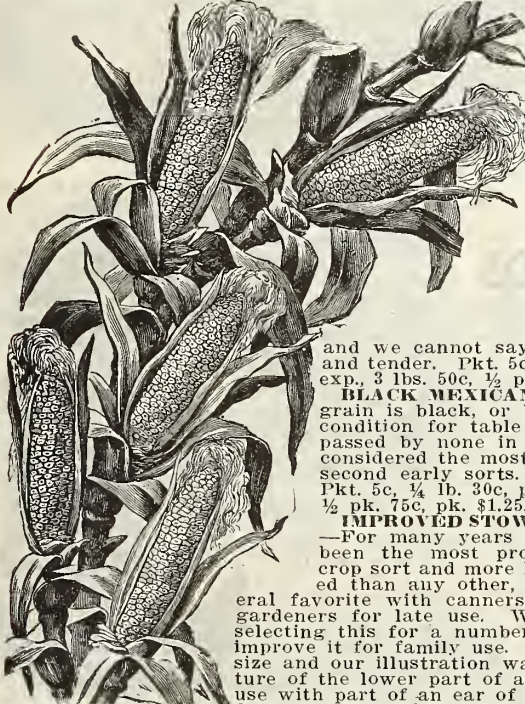
## SWEET CORN--CONTINUED



CHAMPION EARLY.

**CHAMPION EARLY.**—(No. 6.)—Earliest large corn ever introduced, maturing only a few days later than the small-eared sorts and producing large 12-rowed ears 8 to 10 inches long. Pure white kernels with medium white cob, very sweet and tender, usually producing two ears to the stalk. Unsurpassed for market gardening or family garden owing to its large size and fine appearance. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 45c,  $\frac{1}{2}$  pk. 70c, pk. \$1.25, bu. (50 lbs.) \$4.00.

**CROSBY'S EARLY.**—(See Cut No. 8.)—For medium



COUNTRY GENTLEMAN

lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 25c,  $\frac{1}{2}$  pk. 70c, pk. \$1.25, bu. (50 lbs.) \$4.00.

**MAMMOTH SUGAR.**—(No. 13.)—This produces the largest ear of any sweet corn; a single ear will sometimes weigh



UPLAND CRESS

two or three lbs. Sweet and luscious. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 50c,  $\frac{1}{2}$  pk. 75c, pk. \$1.25, bu. (50 lbs.) \$4.50.

**EVERGREEN SWEET FODDER.**—Particularly selected. See page 46. Lb. 20c, postpaid. By express, not prepaid. 3 lbs. 30c,  $\frac{1}{2}$  pk. 45c, pk. 75c, bu. (50 lbs.) \$2.50.

## CRESS

**EARLY CURLED.**—Well known salad. Sow at intervals all season. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c.

**TRUE WATER.**—Sow seeds along the running water. Pkt. 10c, oz. 35c.

**UPLAND CRESS.**—A perennial sort; hardy; produces well; same flavor as Water Cress. Grown on high, dry land; does not run to seed soon. Pkt. 10c, oz. 25c.

**PEEP O'DAY.**—(No. 2.)—See illustration, page 12.—Of Minnesota origin, five to seven days earlier than other kinds. Ear five inches long, of perfect form, and well filled. The corn is tender and sweet. On our place it matured with Early Sunrise and is similar to it in many respects. You will make no mistake in planting some of it for first early. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 45c,  $\frac{1}{2}$  pk. 70c, pk. \$1.25, bu. (50 lbs.) \$4.00.

**EXTRA EARLY CORN.**—(White Cob.)—(No. 3.)—This was for years the most popular variety with market gardeners for first early until the introduction of Early Sunrise. Dwarf growth and yields well; ears medium fine. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 40c,  $\frac{1}{2}$  pk. 70c, pk. \$1.15, bu. (50 lbs.) \$3.75.

**EARLY MINNESOTA.**—(No. 7.)—A standard variety. Has held its position in the list for a long period of years as a dependable sort. The ears are of good size and well flavored. Valuable for either private or market use. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, postpaid. By express, 3 lbs. 35c,  $\frac{1}{2}$  pk. 65c, pk. \$1.00, bu. (50 lbs.) \$3.75.



early use and general crop is one of the most desirable sorts. Ears of medium size and cooking qualities excellent. A good cropper and profitable for family use and as a market sort. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 40c,  $\frac{1}{2}$  pk. 70c, pk. \$1.15, bu. (50 lbs.) \$3.75.

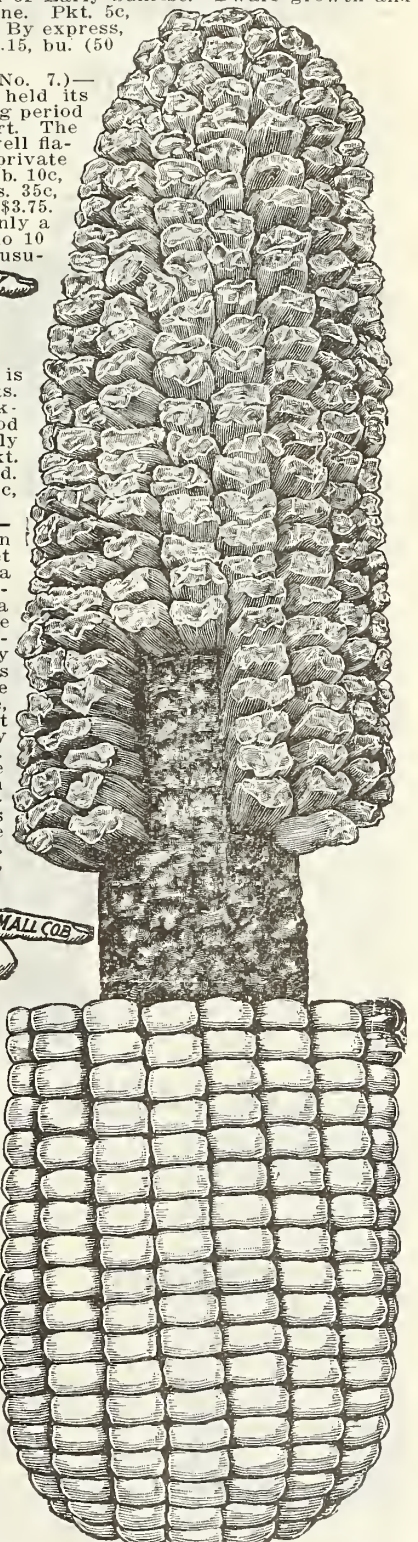
**COUNTRY GENTLEMAN.**—(No. 9.)—An improvement on the old favorite Shoe Peg Sweet Corn. Our illustration of a single stalk shows its great productiveness; 3 to 5 ears to a stalk. In this, coupled with the luscious quality, the general superiority of this new variety will be quickly seen. The cob is small, giving great depth to the kernels, which are pearly white,

and we cannot say too often—surpassingly sweet and tender. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, lb. 30c, postpaid. By exp., 3 lbs. 50c,  $\frac{1}{2}$  pk. 85c, pk. \$1.50, bu. (50 lbs.) \$5.

**BLACK MEXICAN.**—(No. 10.)—Although the ripe grain is black, or bluish black, the corn when in condition for table cooks remarkably and is surpassed by none in tenderness. This, by many, is considered the most desirable for family use of the second early sorts. Withstands hot, dry weather. Pkt. 5c,  $\frac{1}{4}$  lb. 30c, postpaid. By express, 3 lbs. 45c,  $\frac{1}{2}$  pk. 75c, pk. \$1.25, bu. (50 lbs.) \$4.50.

**IMPROVED STOWELL'S EVERGREEN.**—(No. 12.)

—For many years this corn has been the most prominent market crop sort and more largely planted than any other, being a general favorite with canners and market gardeners for late use. We have been selecting this for a number of years to improve it for family use. The ears are medium to large size and our illustration was made by combining the picture of the lower part of an ear in fit condition for table use with part of an ear of dry seed corn. The grains are deep, exceptionally tender and remain a long time in an edible condition. The dried kernels are shriveled so much that they readily show its unusual sweetness. Pkt. 5c,  $\frac{1}{4}$



IMPROVED STOWELL'S EVERGREEN





CHERVIL

## CHERVIL

(An ounce will sow 100 feet of drill.)

Leaves used in soups and salads. Have a pleasant, aromatic taste greatly liked. Cultivate like parsley. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c.



CORN SALAD

## CORN SALAD

(One ounce will sow about 20 square feet.)

Nice winter salad. Sow in September in drills. Just before cold weather cover with straw or leaves. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c.

## CHICORY

**LARGE ROOTED.**—Used as a substitute for coffee. Cultivate the same as carrots. Take up roots in the fall, cut in small pieces and let dry. When wanted for use it is roasted and ground like coffee. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. \$1.00.

**WITLOOF.**—A delicious winter vegetable which is really a variety of Chicory, but is sometimes called French Endive. It makes one of the finest of all salads and is also excellent boiled. Plant seed in May or June in open ground and in the fall dig the roots and plant them in earth in a dark, cool place in the cellar or under greenhouse bench. By planting deeply in loose soil a more solid head is produced which is very fine. Pkt. 10c, oz. 30c.



WITLOOF

## COLLARDS

(One ounce for about 3,000 plants.)

Collards are largely used as "greens" in some parts of the country, especially in the South. They are a form of loose-headed cabbage.

**GEORGIA.**—The most satisfactory variety for general use. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

## ENDIVE

(One ounce will sow about 60 sq. ft.)

Preferred to lettuce by many. Should be more largely used. One of the best and most wholesome salads for fall and winter. Sow in April for early; in June or July for winter. When 8 inches long tie together with a string near top to blanch.

**GREEN CURLED.**—Has finely cut leaves and makes a handsome plant. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

**GIANT FRINGED.**—Also called winter lettuce. The best of all. Strong, vigorous grower, making large white heart; leaves are beautifully curled, and of best quality. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 50c, lb. \$1.50.

## EGG PLANT



IMPROVED NEW YORK EGG PLANT.

A tender plant that should be started quite early in a hotbed or box in the house, which must be kept warm. Transplant late to open ground 2 $\frac{1}{2}$  feet apart.

**IMPROVED NEW YORK.**—Our strain of this, the leading market variety, we believe to be unsurpassed. Very large size, skin deep purple, flesh white and of excellent quality. Very productive. Pkt. 5c, oz. 35c,  $\frac{1}{4}$  lb. \$1.50.

**EARLY LONG PURPLE.**—The earliest variety in existence, being several weeks earlier than the above. Same color as Improved New York, but longer and somewhat smaller. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. \$1.25.

**PEARL WHITE.**—Pure creamy white, slight shading of light green near stem; good quality. Pkt. 5c, oz. 40c,  $\frac{1}{4}$  lb. \$1.50.

## GOURDS

Cultivate like cucumbers; they may be trained over lattice work, fences, etc.

**JAPANESE NEST EGG.**—Grows almost uniformly to the size, color and shape of a hen's egg. The shells are hard and make the very best of nest eggs, as they do not crack. The largest ones, when sawed in two, make excellent pots for starting plants. Pkt. 5c, oz. 20c.

**PIPE GOURD.**—The calabash variety, somewhat resembling the Dipper. Pipes are made from the neck and lower portion of the gourd. Pkt. 5c, oz. 20c.

**DIPPER.**—Makes a light, convenient dipper. Dippers of various sizes, of a capacity from a pint to a quart and a half, can be had from a few vines. Pkt. 5c, oz. 20c.

**SUGAR TROUGH.**—Very large and strong grower. For buckets, etc. Pkt. 5c, oz. 20c.

**LUFFA, or Dishcloth.**—Has peculiar lining which is sponge-like, porous, tough, elastic and durable, making a natural dishcloth or sponge. Start early. Pkt. 10c, oz. 25c.

**HERCULES' CLUB.**—Grows to immense size—4 to 5 feet in length. Pkt. 5c, oz. 25c.

**MIXED UTILITY.**—Seeds of above mixed. This is a very popular item with our customers. Many grow them as curiosities, but they are really useful in many ways. They are easily grown and will repay the work expended. Pkt. 5c, oz. 20c.

## LEEK

Leeks are quite appetizing sliced and served as a salad, or can be cooked and served like onions. Sow thinly in drills early, thin out to stand 6 inches apart in the row. Early in fall draw earth up about the stems as you would blanch celery.

**LARGE ROUEN.**—Largest and most uniform. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 50c, lb. \$1.25.

## FLOWER SEEDS FOR BEES

Below we offer seeds of a few flowers specially desirable for sowing to furnish food for bees. They are all heavy producers of nectar, bloom quickly and will bloom first year from seed, furnishing food during the spring and summer until frost.

**Mixed Flower Seeds for Bees,** including Adonis, Sweet Alyssum, Asperula, Cleome, Pungens, Draccephalum, Candytuft, Matthiola, Phacelia, Mignonette, and Sweet Rocket, in mixture, pkt. 5c, oz. 15c, lb. \$1.50.



WHITE VIENNA KOHL RABI

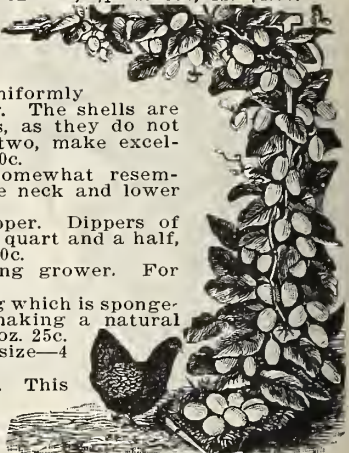
## KOHL RABI

(One oz. produces 2,500 plants.)

If you have never grown Kohl Rabi, you should try it this year. It is a most excellent vegetable, intermediate between the cabbage and turnip. Cultivate like cabbage and cook like turnips.

**GOLIATH PURPLE.**—This is a new sort, of immense size, solid and sweet. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 70c, lb. \$2.25.

**EARLY WHITE VIENNA.**—The flesh is white and tender and it is a good market sort. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.



NEST EGG GOURD



LARGE ROUEN LEEK



# LETTUCE

(One ounce will sow 100 ft. of drill.)

No vegetable is more universally used than lettuce, and to be thoroughly appreciated it must be brought to the table fresh and unwilld. Quality depends largely upon rapid and vigorous growth. Sow in hotbed in March and in open ground as early as it can be worked, thinly in drills one foot apart. For succession, sow every three weeks during season. Thin out plants as they grow.

**ICEBERG.**—The large, curly leaves covering the heads are a bright, light green, with slight reddish tinge at edges. Center thoroughly blanched. In early spring or hottest summer days quality is simply perfect. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**CALIFORNIA CREAM BUTTER.**—A cabbage lettuce, with round, solid head; outside medium green, slightly marked with small brown spots; within, leaves are very rich cream yellow color, rich and buttery to the taste. Heads good size, compact, very hard and solid. In California they eat the heart only, with a dressing or olive oil, vinegar, salt and pepper. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**CONTINUITY.**—A grand variety. Outside leaves are brown tinged with purple, inside of the head a fine creamy white, tender, crisp and well flavored, making it a very desirable sort. Especially recommended for remaining crisp and brittle at all times. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**MAY KING.**—A very early variety of head lettuce of compact growth. The inner leaves are a bright yellow, the outer ones a light green, sometimes slightly tinged with brown. Its greatest claim to popularity is in quick and rapid growth, making it extremely tender and brittle. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**RELISH, or Improved Big Boston.**—We are greatly pleased with this fine new variety. Is one of those rich, buttery-flavored sorts, which when accustomed to, is preferred to the crisp-leaved varieties. It is the blanched yellow center of the head that is eaten. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**IMMENSITY.**—Enormous solid head variety, sometimes 18 inches in diameter, but still tender, crisp and of excellent quality. A reliable sort. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**EARLY CURLED SIMPSON.**—Improved variety of Curled Silesia; large, loose heads; fine flavor. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**IMPROVED HANSON.**—For general use no variety can surpass our improved, and carefully selected strain of Hanson's Lettuce. It has been so improved that the heads are solid and often they do not send up a seed stalk unless cut open with a knife. The heads are very large, green outside and nearly white within, deliciously sweet, crisp and tender, and almost absolutely free from rank or bitter taste. Resistant to summer heat. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**BLACK SEEDED SIMPSON.**—Nearly double the size of an ordinary Curled Simpson. It stands summer well without becoming tough or running to seed quickly.

By far the most popular variety for greenhouse forcing, making large, handsome heads in a very short time. Gardeners are pleased with our seed. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

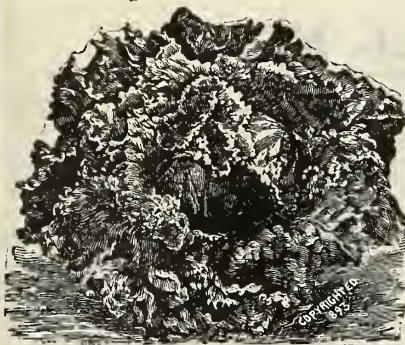
**DENVER MARKET.**—An early variety of head lettuce either for forcing or open ground. Large, solid heads, light green color, and is very slow to go to seed. Leaves beautifully marked and blistered, very crisp and tender. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**ROMAINE.**—Very popular in France, where choice flavor in vegetables is especially appreciated. The leaves are of rather light green color, shading to white when blanched. It is more uniform growing and self-folding than any other variety of cos lettuce, so that it is not really necessary to tie the leaves together in order that it may blanch. Give this a trial this season and you will be more than pleased with it. Possesses a peculiar flavor, crisp and delicious. Pkt. 5c, oz. 20c, ¼ lb. 50c.

**GRAND RAPIDS.**—A forcing variety of superior quality. Strong grower, free from rot, keeps crisp and tender longer than any forcing lettuce. Desirable for sowing in the open ground. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.25.

**SALAMANDER.**—Excellent all seasons sort, forming good heads that stand drouth and heat longer without injury than other sorts. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**PRIZE HEAD.**—Very tender leaves, dark reddish brown. Heads large, of good flavor. We sell more of this than any other brown-leaved variety. Always satisfactory. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.



ICEBERG LETTUCE



CONTINUITY LETTUCE



RELISH LETTUCE



MAY KING LETTUCE.



ROMAINE.

**MIXED LETTUCE.**—A number of the best kinds in mixture. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

LETTUCE SOWN BROADCAST ON GOOD GROUND MAKES EXCELLENT GREEN FEED FOR POULTRY. GIVE IT A TRIAL.



## MUSK MELON

(One ounce will plant about 80 hills, 2 lbs. to the acre.)

The soil best adapted to melons is a warm, rich, sandy loam. Plant in hills five or six feet apart each way, ten or twelve seeds in a hill. When they begin to vine, thin out, leaving only four of the most thrifty. As melons are very sensitive to cold, they should not be planted in this latitude until about the middle of May. Cultivation should commence as soon as the plants appear above the ground, and be kept up once a week until the vines interfere too much.

**THE ORDWAY CANTELOUPE.**—The favorite small basket melon grown at Ordway, Colo. Differs from Rocky Ford in shape and color, as it is more nearly round and inclined to flatten at the ends, but is of about the same size. Color resembles the Burrell Gem, and has salmon-colored flesh. Sweet and spicy, and deliciously melting and sugary. Will stand shipment long distances. Originator claims it is two weeks earlier than Rocky Ford. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**BURRELL GEM.**—A truly delicious melon for home use or will bring a fancy price on the market. About the same size and shape as Rocky Ford, but has rich, golden yellow flesh of most delicious flavor, solid and a most desirable shipping sort. Seed cavity is very small. Average about 6 inches long, 4½ inches in diameter, and weigh 2½ lbs. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**PAUL ROSE.**—Named for its originator; a cross of Osage and Netted Gem, combining sweetness and flavor of the former with fine netting and shipping qualities of the latter. Size about midway between the parent sorts, with salmon flesh. A splendid melon for hotel and restaurant trade. Peculiarly sweet, rich, delicious flavor, and a long keeper. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**THOROUGHBRED ROCKY FORD.**—This variety is in great demand by the high-class hotels and restaurants. Just the right size for table use, slightly oval in shape, flesh thick, of light green color, and fine, juicy, luscious flavor. Very early and wonderfully productive. Our seed is from the crop of the best melon grower at Rocky Ford, who grows the pedigreed stock of this variety. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**GRAND RAPIDS.**—An extremely early variety. Flesh pure yellow to the rind; skin finley netted. Larger than the Rocky Ford type, averaging in size with Osage, but is claimed to be the earliest of the larger varieties. Of handsome and attractive appearance and quality is good. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**EMERALD GEM.**—The finest in flavor and the earliest to ripen; too soft to stand shipping any great distance; unequalled for home use or nearby markets. Vines strong and vigorous; very prolific. Rather small and flattened at both ends. Emerald green, smooth and free from netting, heavily ribbed, with narrow bands of lighter green between ribs. Flesh very thick, crystalline appearance, and of rich salmon color. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**BANANA.**—Attains a length of from 18 to 40 inches; 2 to 4 inches thick. Flesh is very thick, of salmon color. It looks almost like an overgrown banana and smells like one, hence its name. Has a peculiar flavor, differing from ordinary musk melons, and by some is considered superior. Pkt. 5c, oz. 15c.

**MIXED MUSK MELONS.**—A mixture of varieties desirable for the diversity it offers, making an appeal to all different tastes. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

### CASABA MUSK MELONS

This is a class of very late maturing musk melons which do not ripen on the vines in the North, but are gathered before freezing weather and stored in a cool place and brought to a warm room for ripening; can be eaten any time up to Christmas as they keep very long. Shipped from California in carloads during winter.

**WINTER PINEAPPLE, or Santa Claus.**—The original, round form, green, the best keeper of all. Pkt. 10c, oz. 25c.

**WHITE'S FAVORITE.**—Is shaped like Winter Pineapple; beautiful golden color when ripened. Best flavored of this type, but will not keep so long. Pkt. 10c, oz. 25c.

## MUSTARD

A pungent salad, used with cress or for greens. Sow thickly in rows, cut when about two inches high. One ounce will sow about seventy-five feet of drill.

**OSTRICH PLUME.**—Leaves long, ruffled, frilled and curved gracefully as an ostrich plume, desirable for garnishing. Can be cut quite early; excellent for "greens." Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

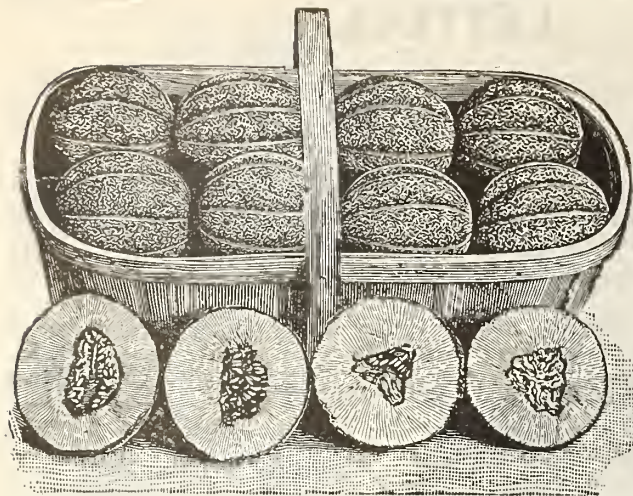
**SOUTHERN GIANT CURLED.**—True curled leaf variety so popular in the South for planting in the fall to furnish early spring salad; also fine for spring sowing. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

**WHITE ENGLISH.**—Seeds are white and it is preferred by housewives for pickling purposes on that account. Makes good greens. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 40c.

I thought I would write you a few lines and let you know I had great success with the seeds I received from you last spring.—Chas. Spainhower, New Eagle, Pennsylvania.

I have used your seeds for the past three years and find them to be the best seeds and largest packages I ever bought.—Mrs. J. E. Broadford, Burr Oak, Kansas.

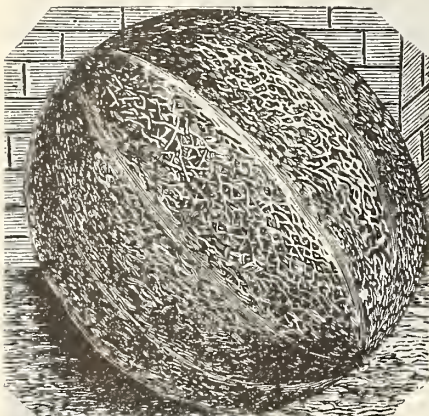
THE LARGE VARIETIES OF MUSK MELON, INCLUDING THE BEST OF THE DIFFERENT TYPES, ARE OFFERED ON NEXT PAGE.



BURRELL GEM.



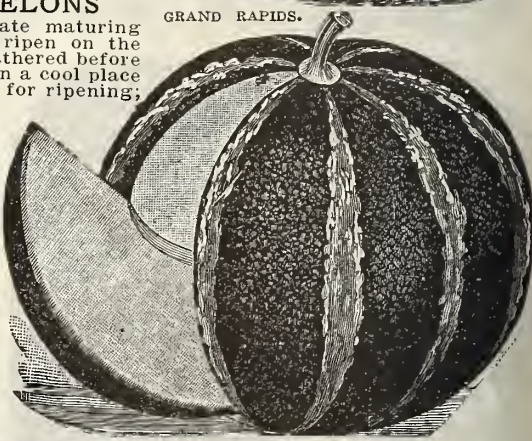
PAUL ROSE.



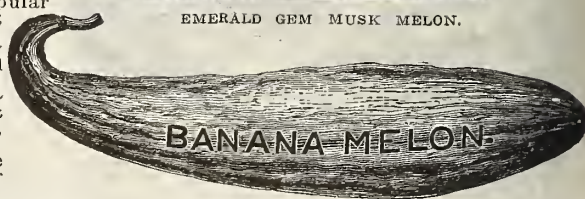
ROCKY FORD MUSK MELON.



GRAND RAPIDS.

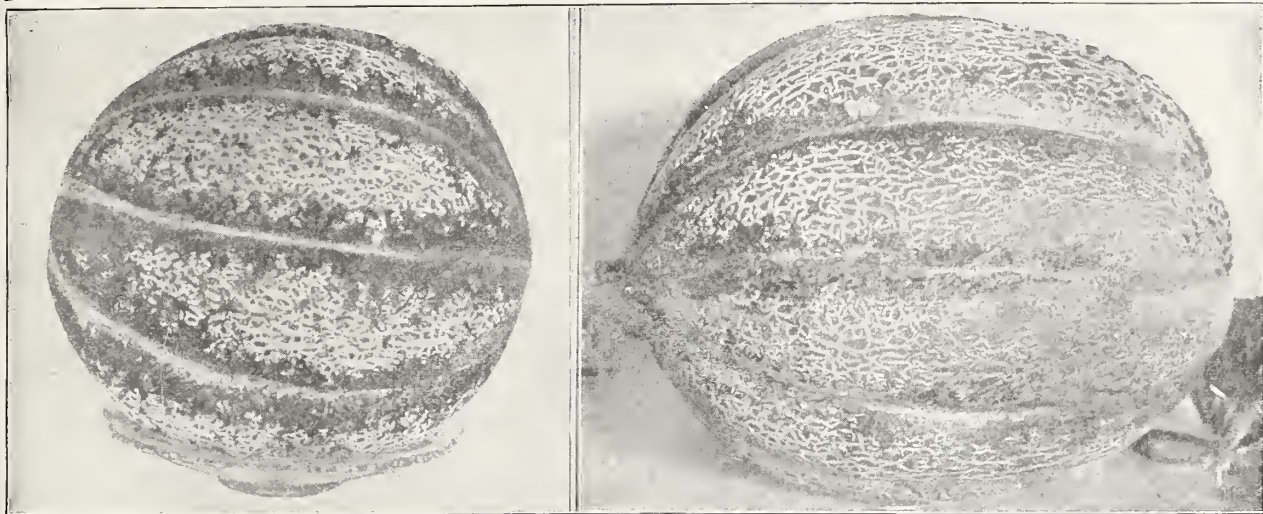


EMERALD GEM MUSK MELON.



BANANA-MELON.

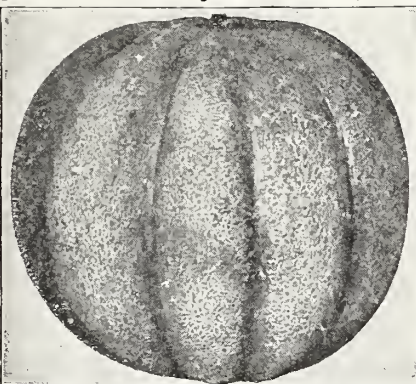




## LARGE FRUITED MUSK MELONS

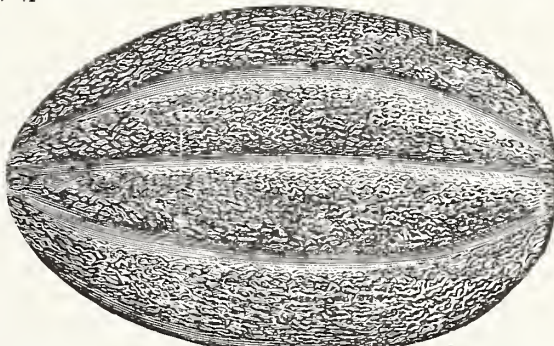
**OSAGE.**—One of the best melons for family use; greatly liked by gardeners. Flesh salmon color, remarkably sweet and spicy, very thick and delicious to the rind. Seed cavity very small. It is seldom that one of poor quality is found. The whole crop is very even and extra heavy, owing to thickness of meat. Medium size, oval, slightly ribbed. Skin thin, dark green color and covered more or less with shallow netting. We have taken great pains to develop the thick, deep, rich colored and fine flavored flesh, and a careful comparison proves it to be unequalled. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

**ENORMOUS.**—A new musk melon growing to immense size. Shape oblong with wide fissures, and while it is well netted the fruits are so large that the netting does not show as heavily as it does on the smaller sized varieties. Specimens have been grown to upward of fifteen pounds in weight. The flesh is very thick, is salmon colored and of better flavor than any other large melon we have ever seen. The seeds are very much larger than in the ordinary sorts. Vine is vigorous and very productive. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c.



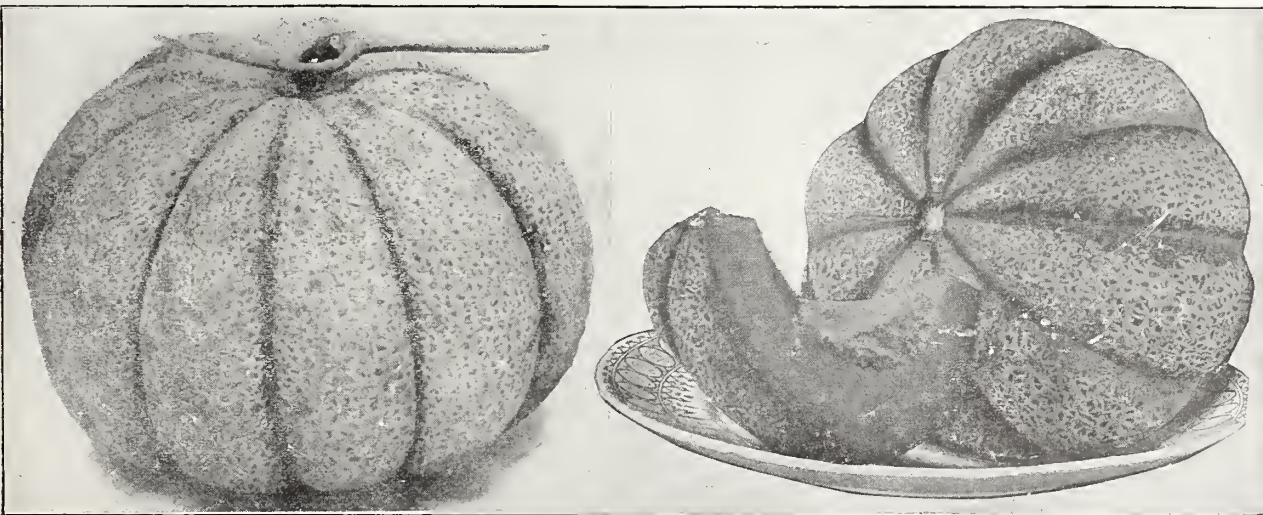
**IMPROVED GREEN NUTMEG.**—A greatly improved strain of the old Green Nutmeg. Fruit of medium size, very rich and melting, of exquisite flavor; flesh light green. Is very productive. The original was a standard sort for many years, and is one of the best main crop sorts. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**BAY VIEW.**—Fruit of largest size, frequently 10 or 15 lbs. Deep ribbed and coarse netted. Best of the large, late maturing sorts. As many persons prefer the old form of musk melon, which was large and long, we offer this as the best of the type. It is of good flavor, productive, with firm flesh, and does not rot quickly. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.



**IMPROVED EARLY HACKENSACK.**—Ready for market fully ten days ahead of the well known Hackensack, which it resembles in size, shape and quality, weighing from five to twelve pounds each. Very productive, averaging five to six melons on the vine all of them deeply netted; flesh light green. Shape is round flattened at the ends and ribs are prominent. Quality fine and a splendid market melon as it ships well. Pkt. 5c oz. 15c  $\frac{1}{4}$  lb. 40c lb. \$1.25.

**TIP TOP.**—(Orange Flesh.)—A fine, nearly round melon of such attractive appearance as to always sell quickly. It is sweet, juicy and delicious. Flesh firm but not hard, and is edible almost to the rind. Of medium to large size, evenly ribbed and moderately netted; strong grower, heavy yielder and handsome. One of the best of the orange fleshed sorts. Customers soon learn to prefer them to others. Particularly adapted to the West. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.





## WATER MELON

(One ounce is required for forty hills; three pounds will plant an acre.)

A light sandy soil, with good exposure to the sun, is the best for water melons. It should be prepared deep, but receive shallow cultivation. Hoe often and thoroughly. Plant in hills 8 to 10 feet apart each way. Plant 8 to 10 seeds in a hill, and, finally, when danger of insects is past, leave but three strong plants. Thousands of melon growers depend on us annually for their seeds and are universally pleased, claiming that nowhere have they ever obtained seeds so pure and reliable. It pays to have the best. Packets contain about one hundred seeds.

**NEW EXCEL.**—(Cut No. 1.)—This new variety resembles the well known Monte Cristo, but is much larger in size, often growing to weigh 60 lbs. Similar in shape and color and will be taken for Monte Cristo by those who are not familiar with this new variety. Has all the melting, delicious sweetness of its prototype, and surpasses it in size, shipping qualities and market value. A splendid sort for both home and market. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**TOM WATSON.**—(Cut No. 2.)—A new variety destined to become a leader among melons, because of its quality and shipping excellence. There is no variety to our knowledge that combines both essentials as does this melon. Most sorts of extra quality are not tough enough to ship, and most shipping melons are too tough to excel in quality. The Tom Watson is a large, oblong melon, the skin of which is dark green, with thick netting on the entire surface, quite distinct from other varieties. It averages 18 to 24 inches long and 10 to 12 inches in diameter and it weighs 50 to 60 pounds. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. The heart is large with no core. Seeds brown, tipped white. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**McIVER'S WONDERFUL SUGAR.**—(Cut No. 3.)—This is a famous melon for sweetness and high quality. The fruits are long and of large size, averaging about 50 lbs. each. Is considered one of the handsomest melons, being rather light colored, irregularly striped and mottled with dark green. Rind is rather thin but tough; a good shipper. Flesh is delicate light red, entirely stringless and tender, and juicy and luscious. Vine is a strong, vigorous grower, very prolific and withstands extremes of weather, either wet or dry. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**GOLDEN SWEET.**—There is a demand for yellow fleshed melons to contrast with red sorts for table service, and in this variety we have the unique color of flesh combined with quality that will make it a fit companion for the sweetest red sorts that grow. The Golden Sweet is a most delicious and fine flavored melon, unsurpassed for sweetness and aroma. Outside skin dark, shape oblong, as shown, size medium, a little larger than Monte Cristo, averaging about 20 lbs., just right for family use. Rind very thin but hard and will carry without cracking or bursting. Flesh golden yellow, solid, smooth, with few seeds. Pkt. 10c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**KOLB'S GEM.**—For many years a favorite sort among northern market growers. On account of its excellent shipping qualities it is extensively grown for that purpose. Nearly round; color a dark green with lighter narrow strips. Very thin rind; flesh bright red, good flavor. Our seed is choice. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

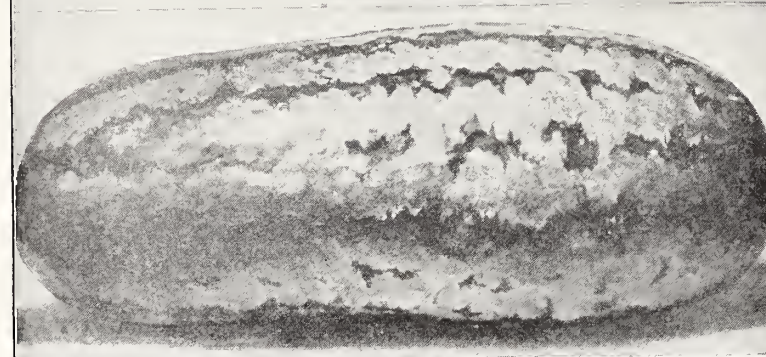
## CITRON MELONS

Nice for preserving and largely used for this purpose.

**APPLE PIE.**—A novelty which will be appreciated in many parts of the country. Illustrated in colors on back cover page. Vine and fruit quite similar to a water melon and are easily grown on any good soil. Each vine produces from five to fifteen fruits and one of the large size will make as many pies as a half bushel of apples. The flesh is white, solid throughout and of excellent quality for making pies, preserves, etc., and resembles apples in flavor. They keep nice and fresh all winter, so they can be used any time and any surplus can be fed to the live stock. It will pay to raise them for this alone as they can be kept and fed all winter. Pkt. 10c, oz. 25c.

**COLORADO PRESERVING.**—This is a large fruiting strain of citron for preserving. The flesh is clear white and very solid. Green seed. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**RED SEEDED CITRON.**—Is round, dark green, striped and mottled with light green. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.



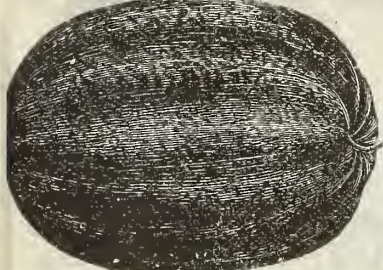
Reading from top to bottom: Excel, Tom Watson, McIver's Sugar, Golden Sweet.

ADDITIONAL VARIETIES OF WATER MELONS, INCLUDING MANY CHOICE SORTS, DESCRIBED AND PRICED, FOLLOWING PAGE.



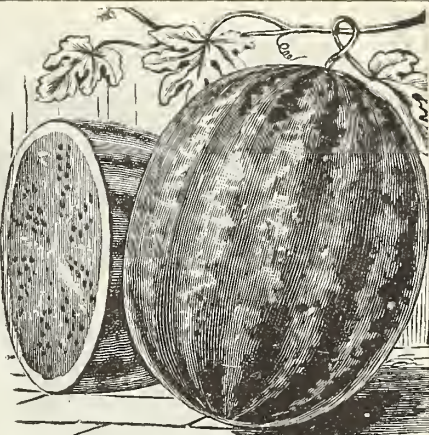
## WATER MELON--CONTINUED

**COLE'S EARLY.**—Decidedly the finest variety for the private garden, but is too brittle for long shipments. It is very early and will mature farther north than most other sorts. Of medium size, very productive, continuing to bear throughout the season. Flesh of bright red color, of granulated, sparkling appearance. In flavor lusciously sweet and refreshing. One of the best early melons and is specially valuable for growing for home market as it matures in advance of other sorts and has the form and color that recommend it to buyers. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.



FORDHOOK EARLY

**FORDHOOK EARLY.**—Large early sort. From seeds planted May 10th, ripe melons have been produced the last of July. The rind is tough, making it valuable for shipping. Color is uniform medium green; flesh red, very sweet, solid, and of excellent quality. In markets where solid green is preferred, the Fordhook will be a favorite. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.



COLE'S EARLY

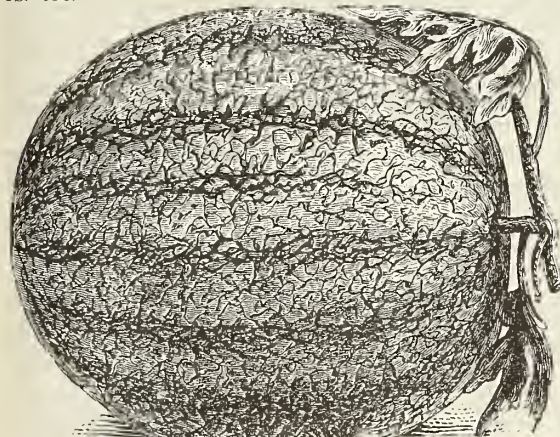
**MONTE CRISTO, or Kleckley's Sweets.**—

A wonderfully popular variety everywhere. After testing all varieties of melons, we do not hesitate to pronounce this one of the sweetest, juiciest, most delicious melons in existence, and it is especially desirable for the private family. The skin is dark green, faintly striped; flesh bright red and peculiarly rich, crisp and pleasant flavored. It ripens early, is of good size, is a good shipper and a long keeper. Market gardeners will also be pleased with it. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. 85c.

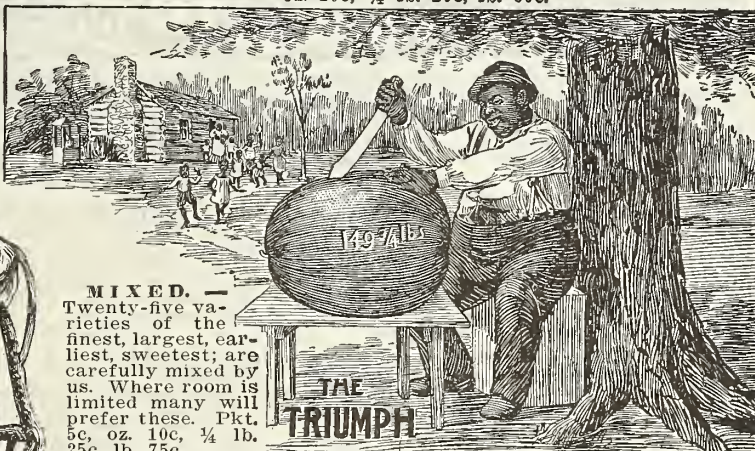
**MOUNTAIN SWEET.**—The old standard, is still quite popular in the North, where large fruited southern sorts do not ripen. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

MONTE CRISTO

**IMPROVED TRIUMPH.**—Is undoubtedly the largest of all melons, having been grown to the extraordinary weight of 149 $\frac{1}{4}$  lbs. Very productive, as melons aggregating over 800 lbs. have been grown on one vine. Governor Candler states that he had one of the Triumph melons weighing 132 lbs., which was sufficient to supply the 43 persons present with all they could eat. It is of dark green color, matures in good season, flesh is dark red, solid, and of excellent quality. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 65c.



SWEETHEART



**MIXED.**—Twenty-five varieties of the finest, largest, earliest, sweetest; are carefully mixed by us. Where room is limited many will prefer these. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

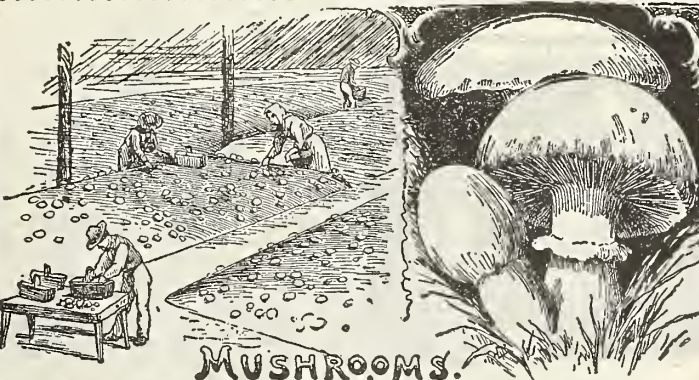
**FEERLESS, or Ice Cream.**—(White Seeded.)—Of unquestionable quality, very early, medium size, thin rind, flesh bright scarlet. Rind too thin for shipping long distances, but it is the great home market melon and has occupied a high place in all seed lists for many years. Few, if any, sorts surpass it in melting, delicious quality. Color is light green, slightly mottled, shape oblong to round, and appearance attractive. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

**SWEETHEART.**—This is a favorite Des Moines market sort. It is early, large, handsome, heavy, a good shipper, long keeper, bright color and of good quality. Vines are vigorous and productive, ripening fruit early. The fruit is large, oval, very heavy, uniformly mottled light green and dark green; rind thin but firm, solid, tender, melting and delicious. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## MUSHROOMS

The ease and certainty with which a crop of mushrooms can be grown to perfection in an ordinary house cellar, woodshed or barn, and the astonishing success of so many who have taken up this new industry, both for profit and their own use, induces us to call especial attention to the subject. The great luxury of mushrooms can be enjoyed by all at a trifling expenditure of money, time and labor. We recommend our English mushroom spawn as generally better both for the market garden and the private planter. Directions for culture sent on application. Per brick of about 1 $\frac{1}{4}$  lbs., by mail, 40c. By express or freight, not prepaid, 5 bricks 90c, 10 bricks \$1.80, 100 bricks \$15.00.

We bought our first seeds of you in 1894. Borrowed a catalogue and wrote out the order on tablet paper. It was a dry year—got nothing at all. Next year tried it again and have bought seeds of you ever since.—Annie Stubbs, Correctionville, Iowa.



MUSHROOMS.

SEND TEN CENTS FOR BOOKLET. "HOW TO GROW MUSHROOMS." CONTAINS MORE INFORMATION THAN OUR LEAFLET.





Good onion seed is of the utmost importance as it is one of the most important crops grown, and there is no other vegetable where the quality of the seed exerts a greater influence upon the crop than onions. There is more money in onions grown from seed than almost any other crop. Fully realizing this, we have for many years made a specialty of onion seed which is all grown from choice, selected bulbs, critically examined before being set out for seed. In vitality it is very strong, being carefully tested, and we are sure that **OUR ONION SEED CANNOT BE EXCELLED** in purity, vitality or high quality. Large onions can easily be grown the first year from the seed by obtaining our American grown onion seed. The crop was short this year and prices may advance. In comparing our prices with others, remember that we **pay the postage**. Deduct ten cents per pound if to be sent by express. Ask for prices in large lots.

**LARGE WHITE GLOBE.**—The handsomest market variety; beautiful, clean, pure, silvery white bulbs of large, even size, globe-shape, mild and pleasant flavor, and outsells every other variety. Undoubtedly the best white sort. Will yield as many bushels per acre as any of the American varieties. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.

**WHITE PORTUGAL or SILVER SKIN.**—Standard white variety for general culture. Bulbs grow to good size, ripening early and quite evenly. A good keeper. Flesh is very mild and sweet; the skin a clear, silvery white, of very handsome appearance. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.



#### IOWA STANDARD, or Golden Globe.

—Offered by us as the very best yellow globe-shaped onion for general culture. We prefer it to the red varieties because it is of mild flavor and much more handsome. Will keep sound and good under conditions that render other sorts worthless. Always uniform in shape, size and color. Is surely thoroughbred, and the entire crop looks like carefully hand-selected onions. Pkt. 5c, ob. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**SOUTHPORT RED GLOBE.**—This is a very handsome variety and is deserving of general cultivation. It is medium early (none of the perfectly globe-shaped onions are as early as the flat varieties), grows to a large size, skin deep red, flesh fine grained, mild and tender. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**YELLOW GLOBE DANVERS.**—A handsome, globe-shaped variety of large size, yellow skin, white flesh, fine grained, mild, very firm and the best of keepers. Has yielded 1,000 bushels per acre, and one of our customers states that his crop averaged over 800 bushels per acre for 9 years. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 65c, lb. \$2.25.

**WHITE BERMUDA.**—A favorite in the south. Grown for the northern markets during winter and early spring. Popular because very mild and palatable. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.

**AUSTRALIAN BROWN.**—Color is a peculiarly clear amber brown, quite distinct from any other variety. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 50c, lb. \$1.75.

**EXTRA EARLY BARLETTA.**—Is a distinct new variety; the very earliest onion in cultivation. Fully two weeks earlier than the Early White Queen, which heretofore has been the earliest variety on the market. They are of pure paper-white color, very mild and delicate in flavor,  $1\frac{1}{2}$  in. in diameter and  $\frac{3}{4}$  in. in thickness. For table use and pickling it is most valuable. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 65c, lb. \$2.25.

**CULTURE.**—One ounce will sow about 100 feet of drill; 4 pounds will sow one acre. The soil for onions should be a rich loam thoroughly enriched with well-rotted manure and pulverized before sowing the seed. It should be as free from weeds and grass as possible. As early as the ground can be worked in the spring, sow the seed in drills 14 inches apart, covering one-half inch. Commence hoeing as soon as the rows can be seen; skim the ground over the surface; avoid stirring deeply, and work the soil away from the bulbs. At second hoeing weed carefully and thoroughly by hand. For pickles or sets the seed should be sown very thickly and in broad drills, about 50 pounds to the acre for sets, and 15 to 20 pounds for pickling. For sowing seed and cultivating the crop, it will pay you to purchase a good drill and hand cultivator. See description elsewhere. Lang's Hand Weeder, price 30c, postpaid, is the best hand weeder made.

**LARGE RED WETHERSFIELD.**—The standard sort throughout the west; the most hardy and immense crops can be raised when more tender sorts are not profitable. Growers who prefer the red varieties will find this magnificent strain far surpassing the ordinary Red Wethersfield in size, productiveness and keeping qualities. Of finest form, skin deep purplish red, flesh purplish white, finer grained than many of the red sorts. Our seed is extra select and cannot be excelled. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 65c, lb. \$2.25.

**CANNONBALL.**—A particularly fancy type of red globe onion, produced by many years' selection of choicest bulbs. It is a thoroughbred, and if properly grown every bulb will be a good one. The hardest, longest keeper, best shape and most uniform strain of red globe onion it is possible to procure. We can recommend this seed to our friends as suitable for a quantity crop. If you intend to sow onion for home or market crop you will not find any strain or any variety that will produce better bulbs or that you can dispose of for more money. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 65c, lb. \$2.25.

**EXTRA EARLY RED.**—Matures very early. Of medium size, flat shape, deep red in color; very close grained, solid and heavy; will often form bulbs in cold and mucky soils where other varieties fail. Recommended particularly for the north and northwest where the seasons are short and cool. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 65c, lb. \$2.25.



# BIG ONIONS

For table use large onions are much preferable to small ones and they bring a better price on the market. The varieties listed on this page are of immense size, splendid quality and yield wonderfully large crops. Do not keep quite as well as some other kinds, still they are usually good till January or February.

## The 5 Giants

One Packet Each of  
**Mammoth Prizetaker**  
**Silver King Copper King**  
**Giant Vesuvius and**  
**Improved Gibraltar**  
**FOR ONLY 25 CENTS**

With each of these "Five Giant" collections we will send a circular, giving full directions for "GROWING BIG ONIONS."

**MAMMOTH PRIZETAKER** (See cut No. 1.—Large, handsome, fine flavored, and in every way a choice variety, having been grown to the enormous weight of over 6 lbs. Of a clear, bright straw color, and uniform, perfect globe shape. Produces enormous crops, one report being over 1,200 bu. per acre; bring an extra price, being sold on the market as fancy onions. Keep well, ripen up hard and firm and present the handsomest possible appearance in market; flesh is fine grained, mild and delicate. To grow largest size, sow early in hotbeds and transplant to open ground soon as weather is favorable. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 65c, lb. \$2.00.

**COPPER KING, OR MAMMOTH POMPEII.**—(No. 2)—Have been grown to the enormous weight of 5 lbs. 6 oz. and retain their shape and fine quality. Weigh the largest onion you can find and compare. Copper color, flesh white, fine grained, mild. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 65c.

**MAMMOTH SILVER KING.**—(No. 3)—The largest white onion, no other approaching its mammoth size. Of attractive form, flattened, but thick through as shown in cut. Often weigh from 2½ to 4 lbs. each. Beautiful silvery white; flesh snowy white, sweet and tender and can be eaten raw. Matures early. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 65c.

**GIANT VESUVIUS.**—(No. 4)—Mammoth foreign variety. In rich soil, under good cultivation, they grow to immense size the first year. Handsome globe shape, somewhat elongated. Color is almost blood red; flesh nearly white and quality most excellent. More tender and mild than the American sorts. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c.

**IMPROVED GIBRALTAR.**—New Spanish onion, similar in shape and color to Prizetaker, but much larger and hardier; keeps better. The leaves of blades are distinct deep green, with glossy surface, enabling it to withstand dry weather and attacks of insects. Very popular among onion growers because of hardness and cropping excellence. Pkt. 10c, oz. 35c,  $\frac{1}{4}$  lb. \$1.00.

**ALLSA CRAIG.**—A mammoth sort from England, where it exceeded all other varieties in size. It is claimed that the largest onion ever produced was of this variety, weighing nearly 7 lbs. Shape of the Prizetaker. Color is pale straw yellow. Flavor is exceedingly mild and it will command the highest price. Pkt. 10c, oz. 50c,  $\frac{1}{4}$  lb. \$1.50.

## OKRA

Ont ounce will sow about 80 ft. of drill.

Nice for soups, stews, etc., and also much liked when pickled. Sow at the usual time of tender vegetables in drills 2 in. deep, leaving the plants 2 to 3 feet apart. Pick pods while quite young and still tender and slice crosswise before cooking.

**WYRICK'S NEW GIANT.**—Wonderfully productive. Pods shoot out from the stalk within 3 inches of the ground, and the whole plant is covered with them. Pods are vivid green, 8 to 9 in. long. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**WHITE VELVET.**—Pods round and smooth, of attractive white, velvety appearance, very tender and of superior flavor. Plants dwarf and very productive. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 65c.



## ONION SETS

For early onions for bunching; ready for table in a very few weeks. Is cheaper to grow from seed but considerable work to weed, and many prefer to buy sets. Price by pint and quart includes postage; deduct 10c per quart if by express. Price per peck or bushel subject to market variations, and shipped at buyer's expense. Top sets sold at 23 lbs. per bushel; other kinds 32 lbs. or stroke measure on all small lots. Write for prices for large lots.

**POTATO ONION SETS.**—A species of Multiplier Onion, increasing from bulb; early; matures quickly; mild. Pt. 20c, qt. 30c; not prepaid, pk. \$1.35, bu. \$4.50.

**WHITE MULTIPLIER ONION SETS.**—Pure silvery white; frequently producing as many as twenty bulbs in a single cluster; excellent quality; very early. Pt. 20c, qt. 40c; not prepaid, pk. \$1.50, bu. \$5.00.

**RED TOP SETS.**—Commonly known as Button Onion Sets. Pt. 20c, qt. 40c; not prepaid, pk. \$1.35, bu. \$4.50.

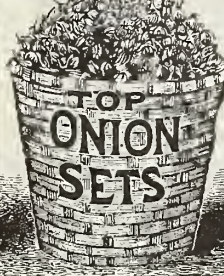
**PERENNIAL, or Winter Sets.**—Also called Egyptian or Tree Onions. Usually set in fall; produce earliest spring onions without winter protection. Do not make large bulbs. Pt. 15c, qt. 25c; not prepaid, pk. 65c, bu. \$2.00.

**WHITE BOTTOM SETS.**—White onion sets from seed are best for early use and large onions. Pt. 20c, qt. 30c, postpaid; not prepaid, pk. 90c, bu. \$3.25.

**RED BOTTOM SETS.**—Are like the white, except that they are of dark red color. Very hardy. Pt. 15c, qt. 30c; not prepaid, pk. 90c, bu. \$3.00.

**YELLOW BOTTOM SETS.**—Like the white, except color. More used than any other kind. Pt. 15c, qt. 30c; not prepaid, pk. 90c, bu. \$3.00.

## BOTTOM ONION SETS



## POTATO ONION SETS



GARDENERS WHO USE ONION SETS IN LARGE QUANTITIES SHOULD ASK FOR SPECIAL PRICES, STATING AMOUNT WANTED.



## PEAS

(One pound will plant about fifty feet of drill;  
2 to 3 bushels per acre.)

Peas mature quickest in light, dry soil, not too rich. May be sown as early as the ground can be worked, and for a succession every two weeks up to July; or, what is better, select several kinds which will form a succession in maturing. Sow in drills 2 to 4 feet apart, according to varieties, and 3 to 4 inches deep for general crop, although the first earliest will come to maturity sooner if only covered 1½ inches. The wrinkled sorts are marked \*. They should be sown thicker in the row than the smooth varieties; they are more liable to rot if the ground is wet. We are this year offering peas by the pound and the pound prices include postage. Larger lots go by express or freight at customer's cost for transportation. If you want the larger lots to come by parcel post you must send postage as

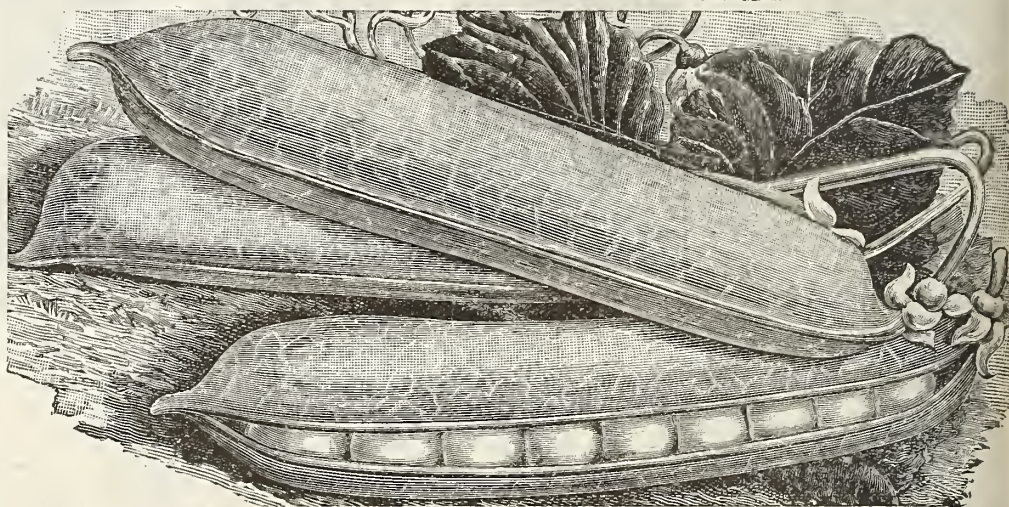
shown by table on page 2. Pecks and bushels are based on the Iowa legal weight of 60 lbs. per bushel.

### EXTRA EARLY SMOOTH VARIETIES

**ALASKA.**—Height 2 feet; pods rather small, dark green color, well filled; the earliest pea known, being two days earlier than the First and Best, and 90 per cent of pods can be gathered at first picking. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By exp., 3 lbs. 50c, ½ pk. \$1.00, pk. \$1.75, bu. \$6.00.

**IOWA CHALLENGE.**—Extra early variety of superior merit which is a favorite with Des Moines market gardeners. We can in confidence say that after a trial of nearly all extra early varieties we have not found one possessing more merit, hence its name. For the market gardener it has no superior. Is not only extra early and prolific, but of good flavor. All good qualities of Extra Early are most nearly brought to perfection in the Challenge. Height 18 inches. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By exp., 3 lbs. 50c, ½ pk. \$1.00, pk. \$1.75, bu. \$6.50.

**FIRST AND BEST.**—An extra early variety of smooth peas which are very popular and have been a standard sort for many years. Are very productive and mature several days before Premium Gem or American Wonder. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By exp., 3 lbs. 45c, ½ pk. 90c, pk. \$1.60, bu. \$6.



GRADUS, OR PROSPERITY.

### EARLY DWARF WRINKLED VARIETIES

**LITTLE MARVEL.**—A strong vine about 15 inches high, bearing tremendous crops of fair size pods, frequently borne in pairs. Pods 2½ to 3 inches long, containing six to seven large, deep green peas. As early as American Wonder, more productive, and will be preferred by gardeners generally because of extra quality. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 60c, ½ pk. \$1.20, pk. \$2.25, bu. \$8.00.

**\*AMERICAN WONDER.**—Popular extra early variety for family garden. Cannot be planted quite as early as smooth sorts; will not stand as much cold, wet weather but is far superior to them in flavor and table qualities. Dwarf, robust habit, growing about 10 in. high; produces a profusion of good-sized, well-filled pods of the finest flavored peas. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 55c, ½ pk. \$1.10, pk. \$2.00, bushel \$7.50.

**\*PREMIUM GEM.**—This has been for many years the standard dwarf wrinkled peas for the family garden, and are also popular with market gardeners. It only grows 12 to 15 inches high and requires no support. It is an improvement on the McLean's Little Gem, being much more prolific than that variety. Pods large, dark green, and quality of the peas is superior to most sorts. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By exp., 3 lbs. 55c, ½ pk. \$1.10, pk. \$2.00, bu. \$7.

**\*GRADUS, or Prosperity.**—One of the finest. This remarkable pea is not only large and of best quality, but it is nearly or quite as early as the small, round, extra early sorts. It is a wrinkled pea with vine growing about 20 inches high. Pods are bright green color and measure 4 inches or more in length, well filled with luscious peas—8 to 10 or more in a pod. Of highest table quality and retain in a remarkable manner their color and attractive appearance after cooking. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By exp., 3 lbs. 70c, ½ pk. \$1.35, pk. \$2.50, bu. \$9.00.

**\*NOTT'S EXCELSIOR.**—Is fully as sweet and delicious as American Wonder and grows one-half taller. Pods are larger and it is far more productive than the Premium Gem, and as early as the first early smooth peas. Mr. Geo. Buchanan writes "I found these peas a very distinct, pure sort, with many marked excellencies over the American Wonder, Premium Gem, Advancer, etc. The peas were ready for table use within forty-three days from planting." Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 55c, ½ pk. \$1.10, pk. \$2.00, bushel \$7.00.





## PEAS--CONTINUED

### SECOND EARLY AND MAIN CROP VARIETIES

**\*DWARF CHAMPION.**—This is a great improvement on the Champion of England, which has been one of the sweetest, best and most popular varieties for the last thirty years. The old variety is very tall (6 ft.), while this new sort grows only 2½ ft., and still vines are vigorous with a great profusion of very large pods filled with large sized peas of superior quality and very sweet. Medium late and suited to main crop. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By exp., 3 lbs. 55c, ½ pk. \$1.00, pk. \$1.75, bu. \$6.50.

**\*IMPROVED STRATAGEM.**—Most popular late variety for market or family use. Preferred because of the immense size of pods and peas and the exceptional sweetness and tenderness when ready to use. Half dwarf sort, 2 to 3 ft. high, and does not require support, though it will repay for the labor of training up with greater yield and longer bearing season. It is a vigorous grower and an enormous cropper. Pods contain 7 to 9 large peas. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 55c, ½ pk. \$1.10, pk. \$2.00, bushel \$7.00.

**MAMMOTH LUSCIOUS SUGAR.**—This new sugar pea bears pods much larger than any other variety, often 6 or 7 inches long and 1½ inches broad. They should not be shelled, but the peas and pods eaten together, as they contain so much sugar, starch and gluten; are very nutritious for family use. Grows quite tall, 5 to 6 ft. high, and requires support. Pkt. 10c, ¼ lb. 15c, lb. 40c, postpaid. By express, 3 lbs. 80c, ½ pk. \$1.60, pk. \$3.00, bushel \$10.00.

**DWARF WHITE MARROW.**—An improvement on the old Large White Marrowfat. Fully as productive, but does not grow so tall and rank. Used almost exclusively for late midsummer planting by market gardeners and is very productive. Grows 3 to 4 feet and is best if supported, though support is not usually given. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By express, 3 lbs. 40c, ½ pk. 75c, pk. \$1.40, bushel \$5.00.

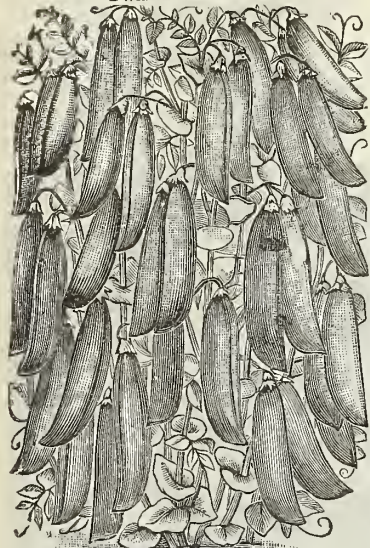
**\*CHAMPION OF ENGLAND.**—It grows 4 to 5 ft. high and requires support, but fine quality and large crop produced more than repays any extra labor required. A strong, vigorous grower and continues to bear for a long time. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By exp., 3 lbs. 50c, ½ pk. \$1.00, pk. \$1.75, bu. \$6.50.

**\*TELEPHONE.**—Immensely productive; finest quality; an excellent sugary flavor; vines very strong growing, about 4 ft. high, and should be supported. Pods large, with 6 or 7 large, delicious peas. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By exp., 3 lbs. 55c, ½ pk. \$1.10, pk. \$2, bu. \$7.00.

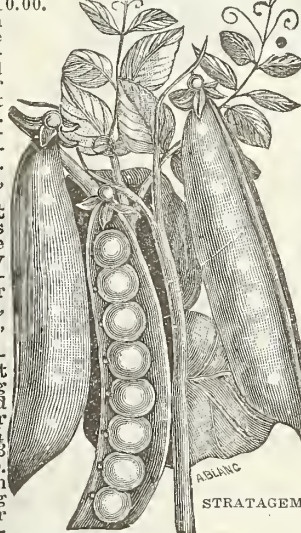
**\*EVERBEARING.**—Fine for main crop. Grows about 2 ft. high, strong and vigorous, branches in a peculiar manner and needs no support. Continues to grow and bear all season if peas are picked as they grow. Pods and peas of large size and fine quality. Pkt. 5c, ¼ lb. 10c, lb. 25c, postpaid. By exp., 3 lbs. 50c, ½ pk. \$1.00, pk. \$1.75, bu. \$6.50.



DWARF CHAMPION



EVERBEARING.



MAMMOTH LUSCIOUS SUGAR



PAGE'S STRIPED RICE

### PLEASE READ THIS

We are this year selling Peas, Beans, Sweet Corn and Pop Corn by the pound, and the quotations by peck and bushel are based on the legal weight table of Iowa and are weighed, not measured. You get actual value; no chance for skimming measures under this selling plan. Peas are 60 lbs. per bushel.

## CHOICE SELECTED POP CORN FOR SEED

It pays to raise pop corn as a general crop. The demand usually exceeds the supply. Some farmers claim it is as easily grown as field corn and they receive three or four times the amount per acre for the crop. Let the children try a patch.

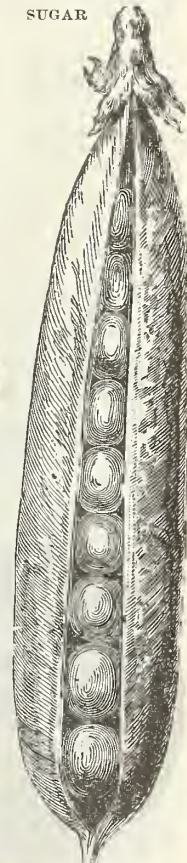
**MONARCH WHITE RICE.**—This is our own strain of large rice pop corn and has been bred up to splendid form and wonderful productiveness. We believe it is the best white variety. Bears three to six ears per stalk and yields 1,800 to 2,500 lbs. per acre. The grain is rather large and in popping expands to great size. If you are growing pop corn for market we urge you to plant Monarch White Rice, as it will yield better returns than any other kind. Pkt. 5c, ¼ lb. 10c, lb. 25c, 3 lbs. 60c. By exp., not prepaid, ½ pk. 65c, pk. \$1.20.

**MINIATURE.**—This is a splendid variety. Ears and stalk are small. Grains are true rice shape, a trifle smaller than Monarch White Rice, but they pop extra well. Produces more ears per stalk than others. Pkt. 5c, ¼ lb. 10c, lb. 25c, 3 lbs. 60c.

**PAGE'S STRIPED RICE.**—Introduced by Iowa Seed Co. A beautiful and attractive variety. Color white, each kernel being striped bright crimson, like the old-fashioned Calico field corn. It has true rice grains, ears of good size, yields big crops, and pops fine and large and exceedingly tender. Pkt. 5c, ¼ lb. 10c, lb. 30c, 3 lbs. 75c.

**QUEEN'S GOLDEN.**—Large ear, and large, smooth grain of a peculiar lustrous golden yellow. Very prolific. Grown by poultrymen for feeding as the grain is of right size and flinty, making especially good feed for growing fowls and pigeons. It pops splendidly, the general appearance of the popped corn being a rich cream color, peculiarly attractive. Pkt. 5c, ¼ lb. 10c, lb. 25c, 3 lbs. 60c.

**MAPLEDALE PROLIFIC.**—Best smooth grain white variety. Ears medium size, but so many to the stalk that average yield is extra large. Produces more popped corn per lb. than larger sorts. On account of the smooth grain it is much nicer to handle than the rough rice kinds. Pkt. 5c, ¼ lb. 10c, lb. 25c, 3 lbs. 60c.



TELEPHONE

PLANT AT LEAST A FEW ROWS OF POP CORN. IT IS APPRECIATED ALIKE BY THE YOUNG AND OLD AS A WINTER Dainty





MARKET GARDENER'S PARSLEY.

## PEPPER

(One ounce will produce about 1,800 plants.)

Sow seed in hotbed early in spring; transplant to open ground when the weather is favorable, in warm, mellow soil, in rows 18 inches apart. Seeds germinate slowly and require considerable heat.

**CORAL GEM BOUQUET.**—(Cut No. 1.)—This new red hot pepper is the finest of the smallest sized varieties. Excellent for pepper sauce. Nice to chop up for mixing picillil. Pkt. 10c, oz. 40c.

**RUBY KING.**—(Cut No. 2.)—Very large in size,  $4\frac{1}{2}$  to 6 inches long by  $3\frac{1}{2}$  to 4 inches thick. When ripe they are of beautiful bright ruby red color and are always remarkably mild and pleasant to the taste. Produces large, handsome fruit and is splendid for stuffed peppers or mangoes. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. 90c.

**CHINESE GIANT.**—(Cut No. 3.)—Most gigantic of all Giant Peppers. A fine mild red pepper of enormous size, magnificent appearance and brilliant, glossy scarlet color. The flesh is mild and unusually thick. Makes an excellent salad sliced and served like tomatoes. Pkt. 10c, oz. 45c,  $\frac{1}{4}$  lb. \$1.50.

**KALEIDOSCOPE.**—(Cut No. 4.)—A very ornamental new sort. The small fruit changes from cream color to canary, deepens to orange then turns into pink, until it becomes a deep, shining scarlet. Pkt. 10c, oz. 50c.

**JAPANESE FANCY.**—(Cut No. 5.)—A very ornamental variety, bearing little heart-shaped fruits of various colors, purple, white, yellow, orange, red, all on same bush. Fruits are edible, of mild flavor. Pkt. 10c.

**LARGE BELL, or Bull Nose.**—(Cut No. 6.)—Early standard sort. More pungent than Ruby King and not quite so large. Is the favorite for drying for winter use. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c.

**RED CHILL.**—(Cut No. 7.)—Small, long fruit, but very hot. Used for pepper sauce. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c.

**MAMMOTH GOLDEN QUEEN.**—(Cut No. 8.)—Average a third larger than Ruby King. Is 8 to 10 inches long; bright, waxy, golden yellow and mild flavor. A favorite variety for mangoes. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. \$1.00.

**SWEET MOUNTAIN, or Mammoth.**—This pepper is in shape similar to Large Bell, but fruits are much larger and not nearly so pungent. A splendid sort for making stuffed pickle. Has been a standard large pepper for many years. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c.

**RED CAYENNE.**—Pods long and slim, of medium size. Pungent. Used for pepper sauce. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c.

**MIXED PEPPERS.**—A choice mixture of all the above and several other fancy varieties. Fine for exhibition. Pkt. 10c, oz. 35c.

Pepper plants of the large varieties listed on page 34.



POMEGRANATE

## PEANUTS

Peanuts can be grown in Iowa, and everyone should plant at least a few, for children.

**RED CROSS.**—The most desirable variety is early as the earliest, most hardy, very prolific and of best quality. Boys, here is a chance for you. Think of growing peanuts in your own garden and having plenty of them to eat. Shell nuts carefully so as not to break inside skin, plant as soon as ground becomes warm, from 2 to 3 ft. apart each way, 4 or 5 to the hill, covering 2 inches. Soil should be deep and mellow. Produce from 25 to 70 bushels to the acre; easily cultivated as corn. Pkt. 10c, lb. 40c, postpaid. By express, 5 lbs. or more at 25c per lb.

**SPANISH.**—Very early variety; quite prolific, but pods are small. Pkg. 10c, lb. 50c.

## PARSLEY

(One ounce will sow 150 feet of drill.)

Sow early, thinly, in drills 1 ft. apart,  $\frac{1}{2}$  inch deep. Soak seed in warm water a few hours before sowing. For winter use, protect in glass frame or light cellar.

**MARKET GARDENER'S.**—An extra choice stock with dark green, beautifully curled, mossy leaves, very ornamental in its growth and very productive. Valuable for either garnishing or flavoring. Earlier than other varieties and what is more important it retains its dark green color till late in the fall and continues to produce well throughout the winter when transferred to the greenhouse. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

**CHAMPION MOSS CURLED.**—Very select stock, finely crimped and curled. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

**HAMBURG.**—Turnip-rooted variety, used for flavoring soups, etc. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

## PARSNIP

(One ounce will sow 200 feet of drills. Five pounds will sow an acre in drills.)

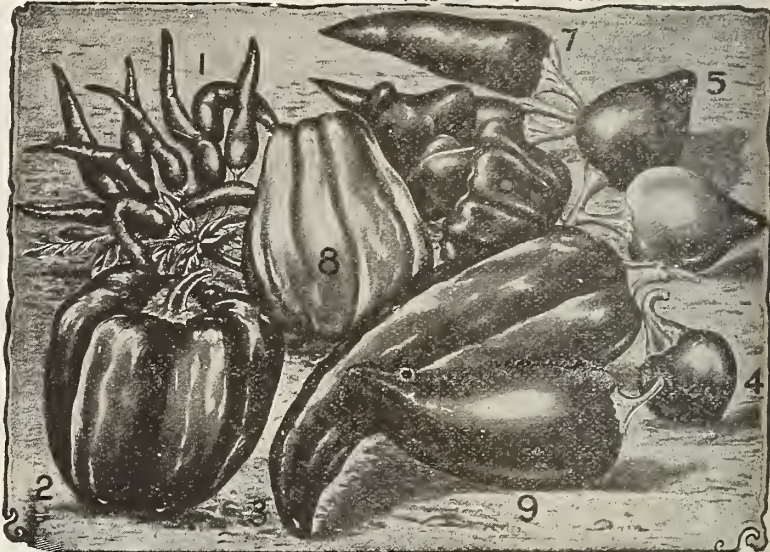
Sow early in spring in good, rich soil, which has been plowed deep, in drills 15 inches apart, covering half an inch. Thin to 5 or 6 inches apart in rows. They are improved by frost.

**IMPROVED TABLE GUERNSEY.**—A greatly improved and wonderfully fine strain of the Guernsey Hollow Crown Parsnip. The roots do not grow as long as the Hollow Crown, but are of greater diameter and more easily gathered. Very heavy cropper; roots are smooth with a deep, hollow crown and a small top. Flesh fine grained, sweet and of excellent quality; cooks evenly, center being as fine, soft, even quality as outside portions. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 80c.

**IMPROVED HOLLOW CROWN.**—This greatly improved strain is about same shape as the old sort, but smoother and of more even quality; fine grained and excellent. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.



GUERNSEY PARSNIP.



PEPPERS. Refer to numbers for description.

## POMEGRANATE

Ornamental little fruit commonly grown in gardens a century ago, but now rarely seen. Grows on pretty vine; fruit is round, yellow, and irregularly striped with orange, red or mahogany; fragrant; a specimen will perfume a room many days. Pkt. 10c, oz. 25c.





# PUMPKIN

(One ounce will plant 25 hills; 4 lbs. will plant one acre.)

The best, most enterprising and most prosperous farmers put in a crop of pumpkins every year. They can be grown separately or with a corn or potato crop, and do not seem to interfere in the least. They are valuable for feeding to stock, and what is a fair without pumpkins, or a Thanksgiving dinner without a pumpkin pie? Planted with corn, two pounds will plant one acre.

**NEW ATLAS.**—What do you think of a pumpkin weighing 300 pounds? It is not an impossibility, as that weight has been exceeded in this variety, which is an improvement on the Mammoth Chili. Our seed is the result of years of selection, and was saved only from the largest sized, perfect shaped specimens, which will be sure to produce enormous fruits if properly grown. It is just the thing for exhibition at fairs. Flesh is a rich yellow, very thick, and excellent quality, nutritious and profitable to grow for stock feeding. Keeps well. Pkt. 10c, oz. 25c, ¼ lb. 75c.

“From one seed of the Atlas Pumpkin received from you I grew one vine which produced four pumpkins. The largest weighed 175 pounds, the second 168 lbs. third 133 lbs., fourth 96 lbs., or 577 lbs. in all.”—Hardy Hughes, Myrtle Creek, Ore.

**KING OF MAMMOTHS.**—The largest variety of true pumpkins. The flesh and skin are of a bright golden yellow, fine grained and of good quality. We know of one specimen that reached the enormous weight of 245 lbs. One customer writes us that he grew one that weighed 158 lbs., and on the same vine he had five other pumpkins from 80 to 104 lbs. each in weight—over 640 lbs. grown from one seed. Farmers and gardeners, just think of that kind of a crop! Will it not pay to grow the King of Mammoths and exhibit them at your county fair? Our seed is from select specimens. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

**MAMMOTH TOURS.**—Is also called “Mammoth Whale.” Grows to an immense size, sometimes 3 feet in length, and to a weight of 100 to 200 pounds. Flesh of a salmon color. Seed of a peculiar shape. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**MAMMOTH ETAMPES.**—Giant variety from France. Bright red color. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**COLLECTION OF Mammoth Pumpkins**  
One Packet Each of New Atlas Mammoth Tours, King of Mammoths and Mammoth Etampes.  
**ONLY TWENTY CENTS**



ATLAS PUMPKIN.

**YANKEE PIE.**—The noted New England Pie or Small Sugar Pumpkin. Same shape and color as the Connecticut Field but is smaller, very sweet, fine grained and one of the best varieties for table use. It pleases everyone for making pies. Early. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

**LARGE CHEESE.**—This is a very popular pumpkin for pies and is quite commonly known as “Sweet Pumpkin.” In size they average about as large as the Connecticut Field but are flat shaped, with creamy buff skin and thick golden flesh. It is one of the best of the pie pumpkin and can be grown in the corn like the common cow pumpkin. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c. Five pounds by express or freight at 45 cents per lb.

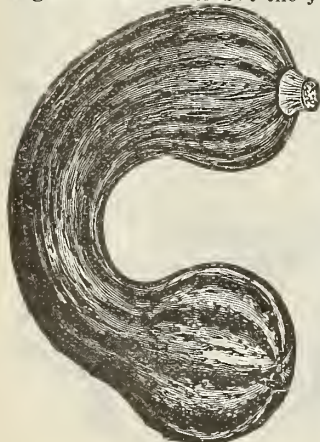
**JAPANESE PIE.**—This is similar in size and form to the well known Cushaw, but the skin is deep green, with darker stripes turning to yellow as fruit ripens; earlier than any other pumpkin. Seeds marked with curious indentations. Flesh is very thick, a rich crimson color, dry and sweet, making rich pies without eggs. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**BIG TOM.**—A greatly improved strain of Yankee or Connecticut Field Pumpkin which has been selected for many years to secure the most uniform type. Not only are the pumpkins larger and smoother but the yield is nearly double that of the old variety. We recommend it to our customers as the very best type of cornfield pumpkin. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c. Five pounds by express or freight at 45c per lb.

**GOLDEN CUSHAW, or Jonathan.**—Attractive and sells better than the old green striped sort. Large, bottle-shaped sort. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25.

**GOLDEN RUSSET.**—An extra choice sweet variety, also called Winter Luxury. Golden yellow, netted or russeted over surface; small to medium size. Unsurpassed as a pie pumpkin and a good seller on market. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.

**CONNECTICUT FIELD.**—Is the common field or cow pumpkin. If you have any live stock plant some of these. Oz. 5c, ¼ lb. 20c, lb. by mail 50c. By exp. or frt. 10 lbs. \$4.00.



JAPANESE PIE.



BIG TOM PUMPKIN.

GROW PUMPKINS AMONG THE CORN OR IN THE WASTE PLACES ABOUT THE FARM. THEY WILL PROVE PROFITABLE.





One ounce will sow 100 feet of drill.

RADISH

Eight to ten pounds will sow an acre in drill.



**FRENCH BREAKFAST**      **SPARKLER**      **SCARLET GLOBE**      **ROSY GEM**      **SCARLET GEM**

Radish seed should be sown in light, rich soil as early as the ground can be worked, and for a succession, at intervals of two weeks, until midsummer. Radishes must be grown quickly and have plenty of room or they will invariably be tough and pithy. Sow in drills one foot apart and thin to two or three inches apart as soon as the rough leaves appear. Most of our radish seed was grown for us in France, "the natural home of radishes," and we think cannot be surpassed.

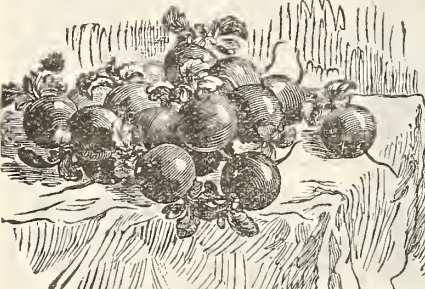
**FRENCH BREAKFAST.**—Of medium size and olive shape, with small top; of quick growth; beautiful scarlet color, shading to white. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

**SPARKLER.**—This is a new extra early, white-tipped, round radish. It is distinct in that the white tip is larger and more pronounced than in any other sort. Much more of the root is white than shown in our illustration, and the contrasting colors being so nearly equal gives it a more attractive appearance than any of the varieties now on the list. Well adapted for either forcing in frames or for the private garden. Will brighten the whole table if placed in a glass dish where colors show to good advantage. Quality unsurpassed; remain solid and crisp a long time. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**EARLY SCARLET GLOBE.**—The most popular variety for hotbeds and forcing, as it is the earliest of all. Of handsome color, crisp, juicy and tender. It forms a small top and will stand a great deal of heat without becoming pithy. Its fine shape, well illustrated by accompanying engraving, makes it sell for a higher price and more readily than any other sort. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.

**ROSY GEM.**—Handsome globe-shaped variety of rosy scarlet, shading to white at the tip. Similar to Scarlet Gem but lighter color. One of the most attractive of the small round varieties. A favorite sort with persons who grow for home use. Rapid grower; fine quality. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

**EARLY SCARLET GEM.**—Extremely early variety which has matured fit for the table in 17 to 20 days from the time of sowing the seed and is fully grown in less than four weeks. It is of a perfect globe shape, and of bright, rich, scarlet color, tipped with white, thus making it particularly handsome on the table. The Scarlet Gem has very few leaves, therefore is an excellent variety for forcing, and gardeners will find it an "A No. 1" seller on the market. In quality it stands unsurpassed—tender, crisp, appetizing. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.



GOLDEN DRESDEN

**GOLDEN DRESDEN.**—A little beauty, with golden brown skin, white flesh, crisp, juicy and of finest flavor. One of the quickest growing sorts; tops small, admitting of close planting. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.



EARLY BIRD RADISH.

**EARLY BIRD.**—Decidedly the earliest of radishes. Quick growth is one of the main essentials for a crisp and tender radish, and with loose soil and proper culture the Early Bird is ready for the table in twenty days from the time of sowing the seed, which makes it one of the most desirable sorts ever offered for either forcing or outdoor culture. It is of round or turnip shape, as shown in our illustration, of bright scarlet color and pure white flesh, which is tender, crisp and of the very best flavor. It has few and short leaves, thus producing a larger number of bundles of radishes on same ground. Very desirable for the home garden and a money maker for the market gardener. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.



VIOLET QUEEN RADISH.

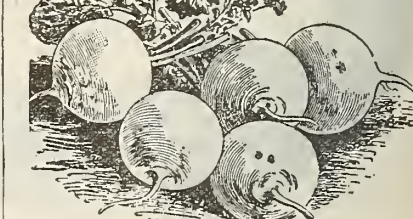
**VIOLET QUEEN RADISH.**—A novelty of 1908 and decidedly the handsomest of all radishes. It is a small, round or turnip-shaped variety of a beautiful violet-purple color, sometimes shading to white near the tip, thus giving it a very pleasing aspect. It matures very quickly, is solid, crisp and of excellent flavor, and does not become pithy quickly. For best results grow in loose, rich soil and cultivate well. It is very showy on the table, especially when put in a glass dish with red and white radishes. Do not fail to try it. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**MODEL WHITE BOX.**—Of handsome shape, very early and has but few leaves, thus making it of special value for growing in hotbeds and boxes, and one-third more radishes can be grown in the same space than with most other varieties. Of clear white color, solid, juicy and unsurpassed in flavor. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.



CRIMSON GIANT

**CRIMSON GIANT FORCING.**—The most profitable variety for market gardeners, and may well be considered the most valuable new variety which has been sent out for many years. A rapid growing sort, developing roots of beautiful deep crimson color, perfect in shape and more than double the size of any other forcing variety. The old standard sorts, such as Rosy Gem and Scarlet Globe, usually measure from two to three inches in circumference, while the Crimson Giant often measures nine inches in circumference without getting pithy or hollow, and retains its firmness and tenderness of flesh. It is a distinct variety differing from other round sorts, and is the most popular sort with Des Moines gardeners. It comes into market a few days after the smaller earlier kinds but drives them all out when it appears. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.



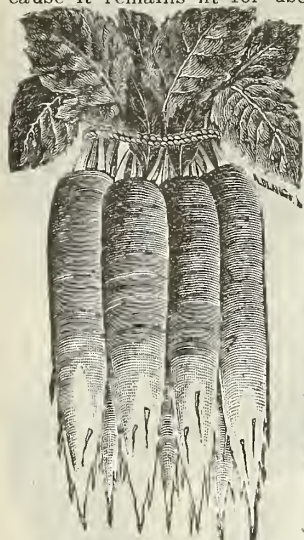
MODEL WHITE BOX RADISH



## RADISH--CONTINUED

**ICICLE.**—A splendid long variety of almost transparent whiteness. Produces nice roots in twenty-two days from the date of sowing, and it continues in prime condition for a long period, so that in one sowing of seed, nice, crisp radishes may be had from spring until midsummer. It is much the most popular sort in the entire list. There is no variety that grows more uniform in type, and there are none that surpass it in quality. We recommend it as the very best second early radish. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 85c.

**WHITE STRASBURG.**—Of handsome, oblong, tapering shape, both skin and flesh being pure white. The flesh is firm, brittle and tender and retains its crispness even if old and large. Excellent for summer use. Very popular because it remains fit for use a long time and does not get pithy. Sometimes called the Sandwich Radish. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 85c.



BRIGHTEST LONG SCARLET

**IMPROVED CHARTIER.**—The roots are long and cylindrical, scarlet rose above, shading into pure waxy white at the tip. Flesh white, crisp and of mild flavor. Stands hot weather well. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 65c.

**EARLY LONG SCARLET, or Short Top.**—An old standard variety of quick growth; long, slender root. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 65c.

**BRIGHTEST LONG SCARLET.**—The handsomest long red radish which is very early. It is shaped like Long Scarlet, but the tips are white like the Chartier. The white and red colors in contrast make it a popular market sort which sells readily. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.



MIXED RADISHES

**MIXED RADISH.**—Our mixture of about two dozen kinds contains all shades and shapes: red, white, pink, variegated; round, half-long, and long, in great variety. It is all the go for small gardeners, where space is limited and you want to make garden and be done with it. One sowing does for the whole season, as they come early, medium, and late. You always have some that are just right—sweet, juicy, delicious, crisp. You will be surprised and delighted with our popular radish mixture. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 65c.

**SAKURIJIMA.**—This is a giant variety of radish from Japan. It has been grown to the enormous dimensions of 43 inches in circumference. The flesh is solid, firm and brittle, and of excellent flavor. Will grow and thrive in any ordinary garden soil. This is a real "novelty" to most Americans and it will hardly be recognized as a radish from its appearance when full grown. Try it and you will be surprised at the real value of this monstrous variety. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

### WINTER RADISH

**LONG BLACK SPANISH.**—A large, black-skinned radish, with firm white flesh of pungent flavor. A good keeper, lasting until spring. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

**CHINA ROSE WINTER.**—A bright rose colored variety. The most popular of the winter radishes because of its bright color, firm flesh and long keeping qualities. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

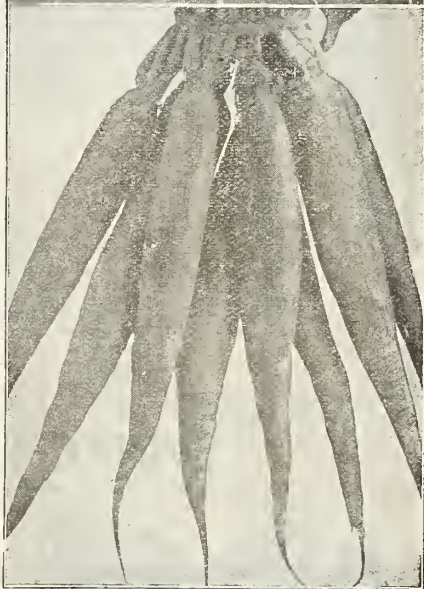
**CALIFORNIA MAMMOTH WHITE.**—Large size, eight to twelve inches long, two to three inches thick, white, solid, of good quality. A very popular sort with market gardeners for late selling. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 85c.

Received my spring order of seeds from your house, and found everything satisfactory. We are always well pleased with everything from your company.—Mrs. B. W. Ritchey, Emlenton, Pennsylvania.

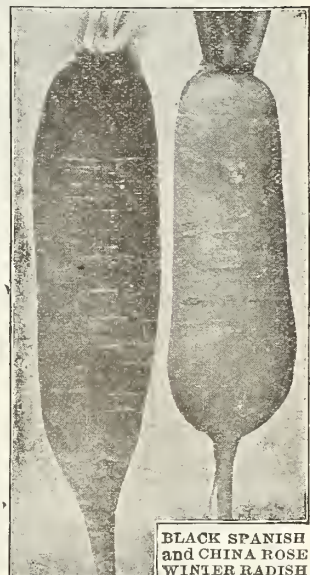
I wish to express my pleasure in your garden seeds, deriving the greatest pleasure from every packet.—J. G. Huge, Clermont County, Ohio.

I have bought my garden seed of you for the past seven years. They have always given satisfaction. Every seed is true to name. You also give larger packets. All of my friends boast of my good vegetables.—Mrs. N. B. Calhoun, Horse Cave, Kentucky.

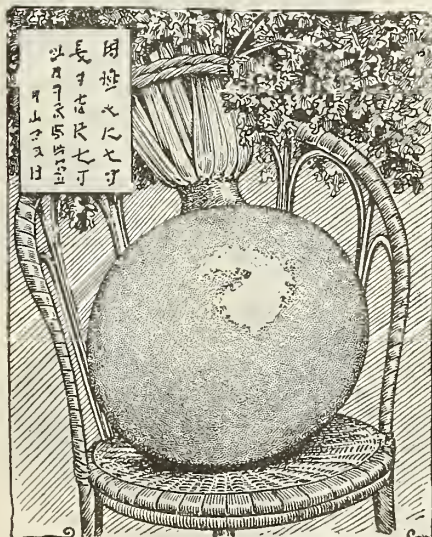
We have just received our order of garden seeds and are very well pleased with them.—J. S. Margon, Guthrie Center, Iowa.



WHITE ICICLE AND LONG SCARLET



BLACK SPANISH and CHINA ROSE WINTER RADISH



SAKURIJIMA RADISH.



# RHUBARB, OR PIE PLANT

(One ounce will produce about 100 plants.)  
Succeeds best in deep, rich soil. Sow in the spring in drills, cover one inch. Thin to 6 inches apart; transplant in fall or spring to permanent beds 3 feet apart each way.



**For price of rhubarb roots see page 34.**  
**IDEAL MAMMOTH.**—This new variety, which is decidedly the finest and best of all, originated with Dr. Kennicott, of Illinois. The stalks are much larger than the Victoria or any other sort and are also produced in much greater abundance. Like all highly improved sorts it seeds sparingly and it comes more nearly true to name if grown from seed than most other varieties. Pkt. 10c, oz. 25c, ¼ lb. 75c.



MAMMOTH SANDWICH ISLAND SALSIFY.

**VICTORIA.**—For many years the standard variety of rhubarb. Stalks are not so large as Ideal Mammoth, but are preferred by many on account of their more piquant and richer flavor. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

## SALSIFY

**VEGETABLE OYSTER**  
(One ounce will sow 50 feet of drill, 8 lbs. to the acre.)  
Why don't you grow salsify? It is one of the most delicious and nutritious of vegetables and should be more generally cultivated for use in winter, when the supply of really good vegetables is limited. It has the true oyster flavor and is a delicious substitute for them in soup, etc. Cultivate like parsnips.

**MAMMOTH SANDWICH ISLAND.**—Average fully double size of old Long White. Roots are white, smooth, and, notwithstanding their enormous size, of superior quality. Pkt. 5c, oz. 25c, ¼ lb. 75c, lb. \$2.00.

## SPINACH

(One ounce will sow about 80 ft. of drill, 10 lbs. to acre.)  
Makes the finest "greens" of any plant in cultivation.



VICTORIA SPINACH.

exceedingly dark, black-green color and for its very long standing qualities, being two or three weeks later than the ordinary varieties. The leaves are thick and spread out flat upon the ground. Is excellent for spring sowing, but not sufficiently hardy to withstand winter in this locality. Pkt. 5c, oz. 10c, ¼ lb. 15c, lb. 50c. By exp., not prepaid, 5 lbs. or more at 40c per lb.

**LONG STANDING.**—Standard with gardeners; leaves thick, fleshy and crumpled, round, large, and dark green color; slow to run to seed. Pkt. 5c, oz. 10c, ¼ lb. 15c, lb. 50c. By express, not prepaid, 5 lbs. or more at 45c per lb.

**BLOOMDALE.**—Savoy-leaved, curled sort, very popular in the South. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

**NEW ZEALAND.**—Very useful to supply the place of ordinary spinach during the hottest months of the year, or in dry, arid localities. A few plants will supply a family with this delicious vegetable from July to October. A distinct variety of merit. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

## PANTRY STORES COLLECTION

Some of the best of the garden fruits suitable for pickling and preserving are offered on the outside back cover.

# SELECTED SPECIALTIES

## GARDEN LEMON

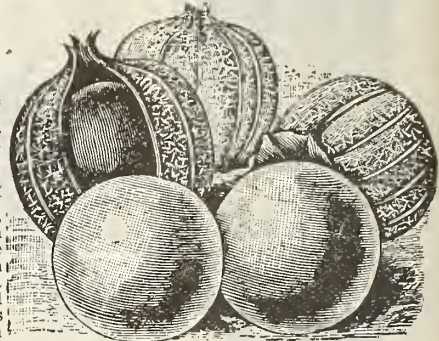
Introduced by us and has been very highly praised. Fruit is of the shape shown in our engraving, is somewhat smaller than Vine Peach and like it in growth, but has thinner flesh and is decidedly acid, thus dispensing with sliced lemons, so important in putting up Vine Peach. Directions for cooking with each packet. Pkt. 5c, oz. 25c.



## GROUND CHERRY

### IMPROVED YELLOW.

—Another year has added to the popularity of this little fruit which we introduced, and it is now listed in the catalogues of the leading seedsmen of the country, to whom we supply seed. They grow well on almost any dry soil, are easier raised than the tomato, are prolific bearers, and oh! what luscious fruit. For sauce or pies they are excellent. They make delicious preserves and when dried in sugar are much better than raisins for cakes or puddings, and they will keep, in the shuck, if kept in a cool place, nearly all winter. No one, after raising them once, will ever make a garden again without devoting a space to the Ground Cherry. Directions for preserving with each pkt. Pkt. 5c, ½ oz. 20c, oz. 30c.



GROUND CHERRY

## GARDEN HUCKLEBERRY

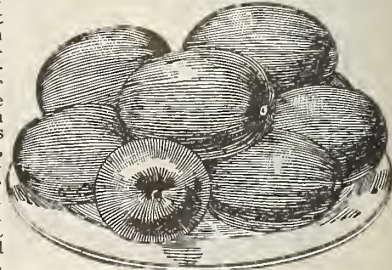
When this new fruit was first offered to us we had but little confidence in it, but after growing it on our grounds we recommend it to our customers. It belongs to the Solanum family (Solanum Nigrum), which is the same class botanically as the tomato, egg plant, and potato. The fruit is non-edible and by some considered injurious when green. When ripe they are about ½ inch in diameter, of shining black color and make delicious pies, preserves and jam. Easily grown and immensely productive. Directions for cooking are printed on each packet. Per pkt. 10c.



GARDEN HUCKLEBERRY

## VINE PEACH

A splendid novelty introduced by us. The vine on which they are borne is somewhat similar to the musk melon vine, and requires the same cultivation. The fruit is about the size of a large peach, oval shaped, and is of a bright orange yellow color, somewhat russety. For sweet pickles, pies or preserving they are superb. A jar of these cut in halves and cooked in syrup presents a beautiful and tempting appearance. Recipes for preparing for the table will be sent with each order. Where fruit is scarce, they are popular, as they are easily cultivated, wonderfully prolific, and can be used in every culinary way in which you would use a peach; not usually liked raw. Pkt. 5c, oz. 25c, ¼ lb. 75c.



VINE PEACH





## SQUASH

(One ounce early varieties will plant about forty hills; one ounce late varieties will plant about twenty hills; 3 to 4 pounds per acre.)

Plant about the middle of spring in hills, the early sorts four to six feet apart, the late varieties eight to twelve. Thin to three plants in the hill. The soil cannot be too rich. Use Slug Shot to kill the bugs.

**EARLY PROLIFIC MARROW.**—Early and productive, the two most important features for the market gardener, while its attractive color—brilliant orange red—good cooking and keeping qualities, make it popular with consumers. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**MAMMOTH CHILI.**—(See Cut No. 6.)—The "Jumbo" of the family. Outer color rich orange yellow; skin smooth, wide fissures. Flesh very thick and of a yellow color. They keep well and are profitable for stock. Have been grown to weigh over 200 lbs. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

**TRUE HUBBARD.**—(See Cut No. 1.)—This sort has stood the test of all rivals and is the most popular winter squash grown; hard, green shell; flesh bright orange yellow, fine grained, very dry, sweet and rich flavor; keep in perfect condition throughout the winter. Our stock is grown on our Altoona farms and is selected for thick flesh and solidity. It has been given our special care for a period of years and is of the highest type. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.

**WARTY HUBBARD.**—(See Cut No. 8.)—A new strain of the Hubbard. The wartiness indicates a very hard shell, which is one of the very best features of a long-keeping squash. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 35c, lb. \$1.25.

**BLUE HUBBARD, or Marblehead.**—Splendid winter variety. Shell light blue; flesh similar to the Hubbard in quality. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

**GOLDEN HUBBARD, also called Red Hubbard.**—(See Cut No. 4.)—This is a counterpart of the old Green Hubbard, except in color, which is a bright, deep orange yellow; much richer in color than Hubbard, fine grained, cooks very dry, and is of excellent flavor. Its keeping qualities are fully equal to, while in productiveness it far exceeds the green variety. This is a squash that every market gardener should plant, for it is a "seller." Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 40c, lb. \$1.25.

### COLLECTION OF HUBBARD SQUASHES

One packet each of the four varieties of Hubbard squashes listed above only 15 cts.

**DELICIOUS.**—(See Cut No. 3.)—Has proved to be a most desirable new winter variety. Color of the skin is green, with an occasional blue specimen, about the same size as the Hubbard, weighing 5 to 10 lbs. Has very thick flesh, cooks dry and is of superior flavor. Although a good fall variety, it is in its best condition during the winter. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**GOLDEN BUSH.**—An improvement on the old Yellow Bush Scallop or Patty Pan. The earliest of all and quite a favorite with all who like summer squash. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

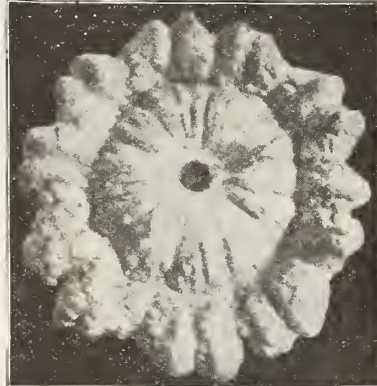
**WHITE BUSH SCALLOPED.**—Similar to Golden Bush. Color creamy white; an excellent sort for family garden for early use. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**EARLY BUSH CROOKNECK.**—(See Cut No. 5.)—Splendid, early, productive, fine quality. With all new varieties recently brought out, many claim there is no summer squash superior to this. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.



WHITE BUSH SCALLOPED

**TABLE QUEEN SQUASH.**—(See Cut No. 2.)—Illustration shows shape of this most excellent new variety. Seeds are small and are to be planted like the early varieties as to distance. The vines are vigorous and they are very productive. They are just the right size, averaging about 6 to 8 inches long and 4 to 6 inches in diameter. Color dark green, with sometimes a blotch of red at pointed end. The shell is hard and smooth and is ridged as shown in the picture. Just wash it clean, cut in half, take out the seeds, bake twenty minutes and you will have the most delicious squash you ever tasted. Splendid for pies because of its sweetness and dainty flavor. Ripens in the fall and keeps as long as Hubbard. A novelty which we introduce in full confidence, as it has already established itself a favorite on Des Moines market. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.50.



GOLDEN BUSH

**NEW HESTER.**—Extra choice new variety, which we introduced. It is an unusual shape, as the stem end is the larger, and it tapers to a blunt point at the blossom end. The color is a pinkish yellow striped at point with light green. Early and can be used as summer squash, but they are superior for winter. When stewed or steamed they are dryer than when baked, and make delicious pies. It is really a quality sort. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**PEERLESS VEGETABLE MARROW.**—(See Cut No. 7.)—In England they consider this far superior to any variety of squash, but for some reason it has never become popular here. The Peerless is, we believe, the most desirable sort, fruits being of handsome shape, creamy white color, very large size, of excellent flavor. Very productive. Cultivate like squash. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 50c, lb. \$1.50.

IF YOU RAISE MORE SQUASHES THAN YOU CAN SELL ON THE MARKET, THE LIVE STOCK WILL EAT THEM EAGERLY.



# TOMATO

One ounce will produce about 2,500 plants.

Sow early in hotbeds or seed boxes and when plants have four leaves transplant to four or five inches apart. Give plenty of air and endeavor to secure a vigorous growth. When all danger of frost is past, transplant to open ground, four to six feet apart each way. Well manured, light, sandy soil is best, but a surplus of manure stimulates leaf growth to the detriment of the fruit. By long years of selection we have tomato seed far superior to that of most dealers. Packets contain 500 to 1,000 seeds.

**SPARKS' EARLIANA.**—Probably no early tomato has so large a sale as Sparks' Earliana. Extremely early, remarkable for large size, handsome shape, and beautiful bright red color. Its solidity and fine qualities fully equal the best late sorts. One of the most profitable crops for the market gardener and especially desirable in the home garden. Pkt. 10c, oz. 35c,  $\frac{1}{4}$  lb. \$1.00, lb. \$3.50.

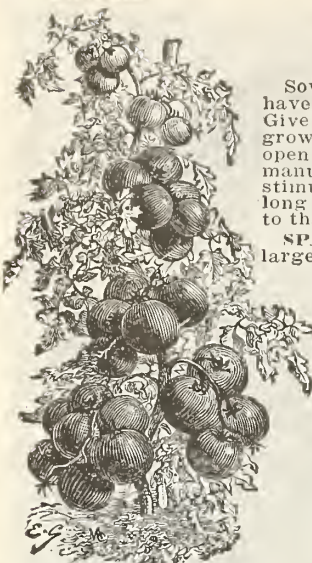
**LIVINGSTON'S BEAUTY.**—One of the best ever introduced. Its size, beauty, shape, color, flavor, durability and productiveness make it desirable to growers. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. 85c, lb. \$2.75.

**MATCHLESS.**—Well worthy of its name, for in beauty, color and symmetry of form it is indeed without a peer. Vines of strong, vigorous growth, well set with fruit, which is entirely free from core, of finest flavor, very rich cardinal red color, and not liable to crack from wet weather; of large size, and the size of the fruit is maintained throughout the season. Solid, of fine quality, and keeps well. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.

**ACME.**—Valuable for the early market; is of medium size, in color a glossy red with purplish tinge. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**PERFECTION.**—Large and round, smooth, handsome red fruit of highest quality. It proves very satisfactory for forcing under glass. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**JUNE PINK.**—This may briefly be described as a pink Sparks' Earliana. About ten days earlier than most early sorts. Fruits medium size, smooth, without cracks or green core. Skin is tough, thus making it a good shipper. Color is bright pink. Pkt. 5c, oz. 35c,  $\frac{1}{4}$  lb. \$1.00, lb. \$3.50.



LIVINGSTON'S BEAUTY



SPARKS' EARLIANA.



MATCHLESS.

**DWARF STONE.**—A dwarf, upright growing plant with fruits fully as large as the standard Stone variety. The fruits are held up well, while it is far superior to any of the other dwarf kinds in size. Color and quality of fruit is high class. Pkt. 10c, oz. 35c,  $\frac{1}{4}$  lb. \$1.20, lb. \$3.50.

**STONE.**—One of the best standard sorts. Color bright red. Fruit large size, perfectly smooth and of best table quality. A famous main crop tomato in many sections, and is much used for canning. Productive. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.75.

**DWARF CHAMPION.**—Plant dwarf and compact, stem stiff and short jointed, almost self-supporting when laden with fruit. Early; purplish pink color; smooth, symmetrical, solid and of fine quality. Best to grow for plants for sale as they are so stocky. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.

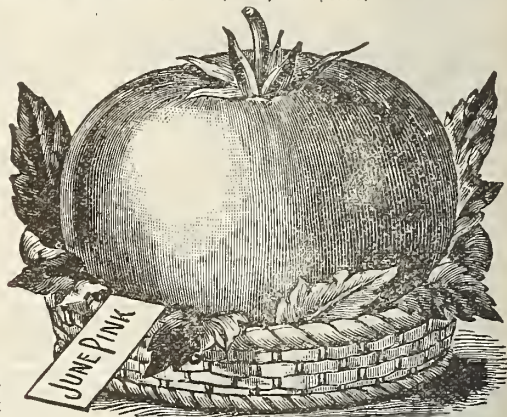
**JAPANESE CLIMBING.**—A great novelty, growing 10 to 12 feet high, and bearing fruit way to the tip. Fruits of medium size, fine shape, solid, smooth and a beautiful shining crimson color. Produced in great clusters and the plant is productive and a continuous bearer. Fruits contain few seeds and are of superior flavor. Start early; they will begin fruiting in July. Pkt. 10c, oz. 40c,  $\frac{1}{4}$  lb. \$1.25.

**GOLDEN QUEEN.**—Large, yellow. Its fruit smooth and of finest flavor; ripens evenly; handsome. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 90c, lb. \$3.00.

**PONDEROSA.**—Very large, inclined to be irregular in shape, but of fine quality. Purplish red. Pkt. 5c, oz. 35c,  $\frac{1}{4}$  lb. \$1.00, lb. \$3.50.

**CRIMSON CUSHION.**—Can be grown on trellises. Grows 7 to 10 feet high, if desired; most of fruit is borne 3 or 4 feet from the ground. Fine quality, extremely large and excellent. Pkt. 5c, oz. 35c,  $\frac{1}{4}$  lb. \$1.00, lb. \$3.50.

**WONDER MAGNUS.**—Of very good size, deep, rich, red color, very solid and containing very few seeds. Our customers know it favorably. A favorite for canning purposes because of color. Pkt. 5c, oz. 35c,  $\frac{1}{4}$  lb. \$1.00, lb. \$3.50.



THE STONE TOMATO



JAPANESE CLIMBING.



# GRAND TOMATO TRIO

## THE THREE MAJESTICS

One Packet Each of the Three Majestics, 25c

**MAJESTIC.**—Is the largest, handsomest and finest quality tomato ever sent out. When we first secured this grand sort we knew that it was of exceptional merit and superior in size and flavor to anything on the market, but we were astonished at the reports received from our customers. Thousands of letters arrived speaking of it in the highest praise. Undoubtedly the largest fruited of any, and the fruit is solid, weighing more than its size would indicate. The first fruits matured are somewhat rough, but later they are smooth and handsome, of rosy red color, its core blending into delicate shell-rose tints. Fruit is unusually solid, with very small seed cells, few in number and near the surface. Flesh is tender, fine grained and rich, yet of mild, delicate flavor, being of the sub-acid class. Plant is of vigorous growth, and many of our customers report specimens of 3 lbs. to 7 lbs. each. The largest were, of course, grown by special culture. There were also many reports of 120 to 160 lbs. of tomatoes grown on one plant. Pkt. 10c, oz. 50c,  $\frac{1}{4}$  lb. \$1.50, lb. \$5.50.



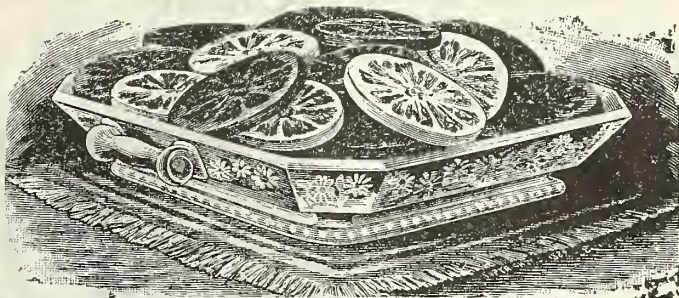
### MAJESTIC TOMATO PLANTS

STRONG, WELL-GROWN, TRANSPLANTED PLANTS

Majestic .....	Per dozen, 40c; per 100, \$2.00
Red Majestic .....	Per dozen, 40c; per 100, 2.00
Golden Majestic ..	Per dozen, 40c; per 100, 2.00
One dozen of each only \$1.00, postpaid.	



GOLDEN NUGGET TOMATO



Illustrating the three Majestics served on the table

**GOLDEN MAJESTIC.** the \$1,800.00 Tomato.—A magnificent new variety which originated in northern Iowa, and we were so favorably impressed with it that we bought all the stock in existence and paid for same at the rate of \$1,800.00 per lb. It is the golden member of the great triumvirate, fully equal to its elder brothers in size, solidity, yield and flavor. Without hesitation, we pronounce it the grandest yellow tomato in existence. The tomato is undoubtedly the most popular vegetable in America, and nothing presents a more appetizing appearance on the table than thick, luscious slices of alternating purple, red and yellow, cut from our Majestics. A trial will convince you of their superior qualities. Pkt. 15c, oz. \$1.00.

**RED MAJESTIC.**—This new variety appears to have all the good qualities as well as the large size of the world-renowned Majestic, but is of a bright cardinal red in color, and for this reason may be preferred by some. It is also of special value for growing on a trellis and will quickly cover a support six or eight feet high, and bears its fruit well up from the ground, out of reach of the chickens. Many growing both this and the Purple Majestic pronounce the red variety superior. Pkt. 10c, oz. 50c,  $\frac{1}{4}$  lb. \$1.50, lb. \$5.00.

I must say your garden seeds are first class and the largest packets I ever received from any company.—Mrs. Clarence Barker, Atwater, Ohio.

Your seeds are the best I ever got anywhere. I had a very fine garden from your seeds, and will recommend them whenever I can.—Mrs. Christ H. Westby, Burlington, Wisconsin.



Plant of Majestic Tomato grown by W. R. Long, Iowa Co., Iowa.

### PRESERVING TOMATOES

**GOLDEN NUGGET.**—When at the Royal Agricultural Show in England, our attention was especially attracted by this grand new variety. Fruits are beautiful golden yellow, round as a ball and about as large as a hulled black walnut. Flavor exceptionally fine, and a most desirable variety for eating from the hand or as a dessert fruit. We have grown them now both on our farm and at our trial grounds, and were more than pleased. Plants were loaded down with most beautiful, rich, golden yellow fruits of delicious flavor. Try them. They are extra fine. Pkt. 10c, oz. 75c.

**PEACH.**—Named from its resemblance to a peach in size and shape. Color a peculiar shade of pink and orange, differing from ordinary tomatoes. A fine sort for preserving. Pkt. 10c, oz. 40c.

**YELLOW PEAR.**—A favorite with all who know them. Pear-shaped and a deep yellow color. Highly valued as a table delicacy raw, also for preserving or to make "tomato figs." They are fine pickled. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. 75c.

**CRIMSON CURRANT.**—A most charming little fruit, hardly more than a half inch in diameter, of bright crimson color; borne in long clusters containing from twenty to sixty tomatoes. Excellent for eating from the hand or preserved. Pkt. 10c, oz. 60c.

**STRAWBERRY, or Husk Tomato.**—Also called Ground Cherry. Is of spreading habit and immensely productive. Pkt. 5c, oz. 30c.

I have been dealing with your house for fifteen years. You handle the best, true to name seeds of any house I have dealt with.—Peter Gengler, Cawker City, Kansas.

THERE ARE NO TOMATOES IN THE WORLD SUPERIOR TO OUR THREE MAJESTICS. PROVE THEIR MERITS BY A TRIAL.



One ounce will sow 150 feet of drill.

## TURNIP

Two pounds will sow an acre.

For early, sow in April in drills half an inch deep and twelve inches apart; thin to six inches apart in the drill. For main crop sow broadcast in July and August, and before a shower if possible.

**EXTRA EARLY PURPLE TOP MILAN.**—One of the earliest sorts in cultivation. Bulb very flat, medium size, quite smooth, with a bright purple top; leaves few, short, and light color; grows compact and makes exceedingly small strap-leaved top. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 35c, lb. \$1.00.

**EARLY WHITE MILAN.**—Much like the above, but is pure white all over, instead of having purple top. Quite popular with gardeners. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 35c, lb. \$1.00.

**EARLY SNOWBALL.**—A globe-shaped, white-skinned turnip, very fine grained, firm and of delicate flavor. One of best keeping of white fleshed sorts, very early and particularly adapted for family or market use. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**WHITE EGG.**—A quick-growing, egg-shaped, perfectly smooth, pure white variety with small top and rough leaves. Flesh very sweet, firm and mild, never having any rank, strong taste. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**GOLDEN BALL, or Orange Jelly.**—A beautiful bright yellow turnip of medium size and universally sweet and delicious flavor. Is hardy and one of the best keepers. Flesh extremely firm and solid. Brings good price on market. If you have never tried yellow turnips we advise you to plant some of the Golden Ball in your home garden this year. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 35c, lb. \$1.00.

**PURPLE TOP GLOBE.**—Similar to the Purple Top Strap Leaved except shape. The largest yielder of any turnip on the list and always brings top market price. Desirable for table use or for stock. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c, 5 lbs. or more, not prepaid, 40c per lb.

**PURPLE TOP STRAP LEAVED.**—The standard for this part of the country for late planting, and we sell immense quantities of it every year. One of the best table and stock sorts on the market; fine grained and of mild flavor. Of

good size, flat shape, pure white below with purplish red top. Good cropper and excellent keeper. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c; 5 lbs. or more, not prepaid, at 45c.

**COW HORN.**—This variety pure white; in shape like a carrot, growing nearly half out of the ground, and slightly crooked. It is delicate and well flavored. Used also as a green manuring crop. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

**SCARLET KASHMYR.**—This new extra early, bright scarlet turnip has a striking resemblance to a large radish. The flesh is white and crisp. Matures almost as quickly as the earliest radish, and when cooked is of unsurpassed quality. Good keeper and entitled to a place among garden favorites. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**SEVEN TOP.**—Cultivated extensively in the south for the tops, which are used for greens. It is very hardy and will grow all winter, but does not produce a good root, and is recommended only for tops. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

## RUTA BAGA

Largely grown in the north for stock feeding, and for this are superior to turnips. Sow not later than June in drills 2 feet apart and thin out to 8 inches in the row.

**IMPROVED AMERICAN.**—Very solid, fine quality, good shape, smooth skin, small neck, keeps well. A choice strain of very best quality for table use or stock feeding. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c, 5 lbs. or more, not prepaid, at 40c.

**MONARCH.**—This grand new and distinct form of ruta бага is, we believe, by far the most productive of all. Of tankard shape, with very small neck, skin dark red above ground and yellow below, flesh rich yellow, fine grained, good quality. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c, 5 lbs. or more, not prepaid, at 40c per lb.

**WHITE SWEET GERMAN.**—Large size, oval and very solid; flesh pure white, sweet. Best keeping sort. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c, 5 lbs. or more, not prepaid, at 45c per lb.

## TOBACCO

**BIG ORONOCO.**—A favorite Virginia variety. Grows very large, broad leaves. A fine variety for dark plug wrappers and brings a good price in the market. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. \$1.00.

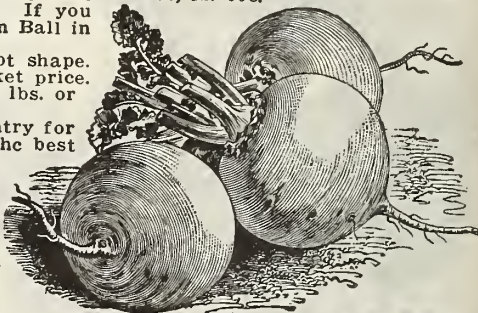
**CONNECTICUT SEED LEAF.**—This is a staple variety in all sections of the country and will grow successfully over a wide range of territory. Used for cigar fillers. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c.

**HAVANA.**—The best known variety, as it is used very largely for cigar wrappers. Commands the highest market price when well grown and cured. Pkt. 5c, oz. 40c,  $\frac{1}{4}$  lb. \$1.25.

**WHITE BURLEY.**—A mild and sweet tobacco. It is the standard main crop variety in the tobacco sections as it is extra fine for manufacturing in nearly every manner that tobacco is used. Pkt. 5c, oz. 30c,  $\frac{1}{4}$  lb. \$1.00.



**MIXED TURNIPS.**—All the table varieties mixed in equal proportions. For family use. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.



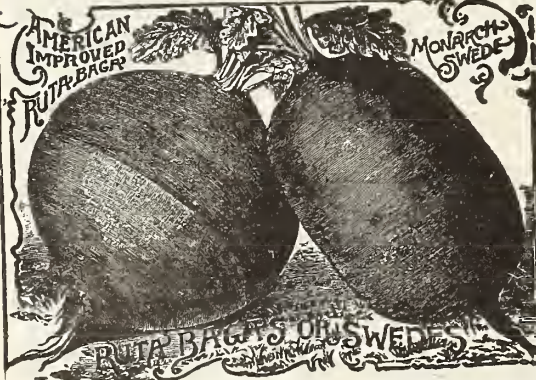
WHITE EGG.



PURPLE TOP STRAP LEAF



PURPLE TOP GLOBE



TOBACCO

GET THE SMALL GRAIN OFF EARLY AND SOW TURNIPS ON THE STUBBLE. TWO CROPS MAY BE SECURED IN THIS WAY.



## HERBS

In making up your assortment of seeds for the year don't neglect to order a few varieties of herbs. The chief point is to harvest them properly, which should be done on a dry day when not quite in full bloom, dried quickly and packed closely and entirely excluded from air. Those marked with an asterisk (\*) are perennial.

**ANISE.**—Seeds of agreeable, aromatic taste. Pkt. 5c; oz. 10c.

**BALM.**—For making balm tea. Pkt. 5c; oz. 25c.

**BASIL, SWEET.**—For flavoring soups, stews, etc. Pkt. 5c; oz. 15c.

**BORAGE.**—Leaves used for flavoring. Pkt. 5c; oz. 15c.

**\*CARAWAY.**—Seeds are used for flavoring bread, etc. Pkt. 5c; oz. 10c.

**\*CATNIP, or Catmint.**—For seasoning. Pkt. 5c; oz. 30c.

**CORIANDER.**—Seeds used in confectionery. Pkt. 5c; oz. 10c; ¼ lb. 25c.

**CASTOR OIL PLANT.**—Seeds are pressed out to obtain oil. Pkt. 5c; oz. 10c; ¼ lb. 20c, lb. 50c.

**\*CHAMOMILE.**—Largely used for medicinal purposes. Pkt. 10c.

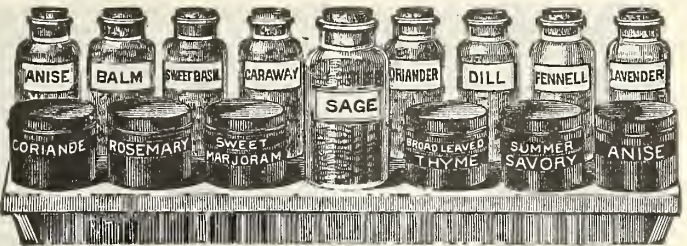
**\*DANDELION.**—Grown for greens, also for medicine. Pkt. 5c; oz. 35c.

**DILL.**—Used in making dill pickles. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

**\*FENNEL, SWEET.**—Leaves used in sauces. Pkt. 5c; oz. 10c.

**\*HOREHOUND.**—For seasoning and cough remedy. Pkt. 5c; oz. 20c.

**\*HYSSOP.**—For asthma and catarrh. Pkt. 5c; oz. 20c.



**\*LAVENDER.**—Used as a perfume. Pkt. 5c; oz. 15c.

**MARJORAM, SWEET.**—For seasoning. Pkt. 5c; oz. 15c.

**POPPY, or Maw.**—Blue Seeded. Pkt. 5c; oz. 10c.

**\*ROSEMARY.**—Aromatic leaves used for seasoning. Pkt. 5c; oz. 40c.

**\*RUE.**—For medicinal uses; good for fowls. Pkt. 5c; oz. 15c.

**SAFFRON.**—Flowers used for coloring. Pkt. 5c; oz. 15c.

**\*SAGE.**—Much used for dressing. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.

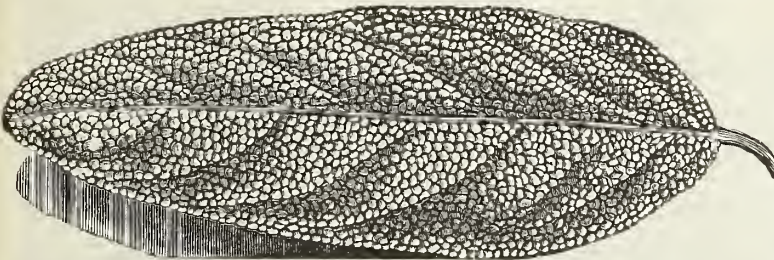
**SUMMER SAVORY.**—Used for flavoring. Pkt. 5c; oz. 10c; ¼ lb. 30c.

**\*TANSY.**—Cultivated for medicinal purposes. Pkt. 5c; oz. 40c.

**\*THYME.**—Leaves and young shoots used for seasoning. Pkt. 5c; oz. 40c.

**\*WORMWOOD.**—Used medicinally, and also for poultry. Per pkt. 5c; oz. 20c.

**MIXED VARIETIES.**—A mixture of all the above. A nice garden assortment. Pkt. 5c; oz. 15c; ¼ lb. 45c.



HOLT'S MAMMOTH SAGE—AVERAGE SIZE LEAF

**ARTEMISIA, or Brotan.**—A hardy plant sometimes called "Old Man." The leaves have a pleasant odor and bitter taste. Use similar to wormwood. Each 15c; 3 for 40c.

**BALSAM MINT.**—Has a soft, agreeable fragrance and is used for perfume; also used for flavoring soups, salads, etc. Each 15c; 3 for 40c.

**CALAMUS—Plain Leaf.**—(Acorus.)—Also called "Sweet Flag." Leaves have an aromatic odor and roots a pungent taste. Grows in wet soil or beside ponds, but can be grown in dry places also. Each 15c; doz. \$1.50.

**Variegated.**—A variegated-leaved variety of the sweet flag which is preferred to the plain because in addition to its medicinal qualities it is useful as an ornamental plant. Each 15c; doz. \$1.50.

**CHIVES.**—Perfectly hardy little perennials of the onion tribe, and are grown entirely for their tops, which are used wherever flavor of onion is required. Plant in small clumps in any common garden soil and they will grow readily. The tops appear very early in spring and can be shorn throughout the season. In New England it is considered indispensable for use in omelets. Roots per bunch 10c; 3 for 25c; doz. 85c.

**CATNIP, or Catmint.**—A well known perennial herb having great medicinal value. Used largely for infants. Ea. 10c; 3 for 25c; doz. 75c.

**HOP ROOTS—English Cluster.**—A fine variety of commercial hops. The vines are very ornamental when trained over rockeries, stumps, etc., with the added value of usefulness from the crop produced. Each 10c; 3 for 25c; doz. 75c.

**LEMON MINT.**—Also called Citronelle and Bergamot Mint. A perennial, hardy herb, leaves of which furnish a sweet lemon fragrance and flavor. Each 10c; 3 for 25c; doz. 75c.

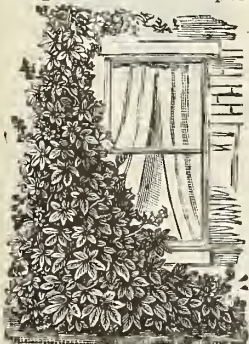
**MONARDA DIDYMA.**—Also called Scarlet Bergamot and Oswego Tea. Not only useful as an herb, but very ornamental for its bright scarlet flowers. Each 10c; 3 for 25c; doz. 75c.

**PEPPERMINT.**—All children know and like the flavor of peppermint. It has a high medicinal value. Each 10c; 3 for 25c; doz. 75c.

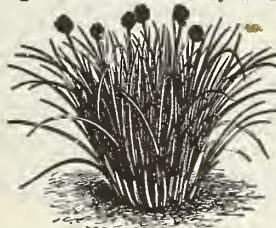
**GENUINE PENNYROYAL.**—Warm, pungent, of somewhat aromatic taste; used for medicinal purposes. Each 15c; 3 for 40c; doz. \$1.25.

**ROSEMARY.**—Used for perfume; for flavoring meats, stews, etc., and garnishing. Each 10c; 3 for 25c; doz. 75c.

**HOLT'S MAMMOTH SAGE.**—Great improvement on common sage. Plants very strong growing, first season attaining one foot in height, and so spreading that a single plant covers space three feet in diameter; leaves are borne well above the soil; very large and of unusual substance, strong in flavor and of superior quality. A single plant of Holt's Mammoth will yield more than a dozen of the common sort; hardy. Each 10c; 3 for 25c; doz. 75c.



ENGLISH CLUSTER HOP



CHIVES

## GARDEN PLANTS AND ROOTS

Every garden should contain an assortment of these hardy plants and a few square feet will supply the family. Many persons now believe that if these well known old remedies were kept and used more in families in place of so many drugs and patent medicines it would be better for the health of the people. Orders for these plants must amount to at least twenty-five cents. We pay the postage.

**LAVENDER.**—A favorite plant with our grandmothers for perfuming wearing apparel, by distributing its sprays in the bureau drawers. Each 10c; 3 for 25c.

**VARIEGATED MAMMOTH SAGE.**—Beautifully variegated dark green and pure white color, which makes it a very ornamental plant; equal to Holt's in productiveness and flavor; new and scarce. Each 15c; 3 for 35c.

**SPEARMINT.**—This is commonly called Mint and thousands of dollars' worth of it is sold annually in New York, Boston and other cities for flavoring salads, garnishing meats, mint julep, etc. Each 10c; 3 for 25c; doz. 75c.

**THYME.**—A well known plant which is used for sauces and flavoring. Each 10c; 3 for 25c.

**TANSY.**—Used largely for its tonic, stomachic and other medicinal qualities. Each 10c; 3 for 25c; doz. 75c.

**TARRAGON.**—The true tarragon is appreciated thoroughly by all who know of it, for the use of its aromatic leaves in seasoning salads, soups, pickles, etc., and also for tarragon vinegar. Each 15c; 3 for 40c; doz. \$1.25.

### HOUSEWIFE HERB COLLECTION

3 bunches Chives, 1 Hop Vine, 2 Holt's Mammoth Sage, 2 Lavender, 1 Rosemary and 3 Spearmint; all postpaid for \$1.00.



TARRAGON





Well grown and lightly packed to carry a long distance. They can be shipped fresh, well packed at the beds, on a day's notice. All are strong, transplanted plants unless otherwise stated. Plants quoted "by mail" are sent at our expense; "by express" the purchaser is to pay the express charges. No charge either for packing or boxes. Plants from either hotbed or cold frame are ready during April or May; outdoor grown during June and until the middle of July. 500 sold at 1,000 rate. Large orders for more than 1,000 plants should be placed at least 30 days before shipping date.

**EARLY CABBAGE.**  
Transplanted ready April 10.  
**Extra Early Express.**  
**Early Jersey Wakefield.**  
**Washington Wakefield.**  
**All-Head Early.**  
By mail postpaid, 25 for 35c, 100 for \$1.00. By express, not prepaid, 100 for 85c, 1,000 for \$7.50.  
If preferred we can furnish seedling plants, not transplanted, by mail postpaid, 25 for 25c, 100 75c. By express, not prepaid, 100 for 60c, 1,000 for \$4.00.

**LATE CABBAGE.**  
Ready May 15; field grown after June 15.  
**Premium Flat Dutch.**  
**Short Stem Drumhead.**  
**Danish Ball Head.**  
By mail postpaid, 25 for 25c, 100 for 65c. By express, not prepaid, 100 for 45c, 1,000 for \$3.50.

**CELERY.**  
Transplanted ready May 1.  
**White Plume.** **Giant Pascal.**  
**Golden Self Blanching.**  
By mail postpaid, doz. 20c, 100 for 75c. By express, not prepaid, 100 for 60c, 1,000 for \$4.50.

After June 15 we can furnish outdoor grown plants, not transplanted, by express, not prepaid, 100 for 40c, 1,000 for \$3.00.



ASPARAGUS

**CAULIFLOWER.**  
Transplanted ready April 15.  
**Henderson's Snowball.**  
By mail postpaid, doz. 25c, 100 for \$1.50. By express, not prepaid, 100 for \$1.25, 1,000 for \$10.00.  
**TOMATO.**  
Transplanted ready May 1.  
**Sparks' Earliana.** **Beauty.** **Stone.**  
**Dwarf Champion.** **Matchless.**  
By mail postpaid, doz. 25c, 100 for \$1.40. By express, not prepaid, 100 for \$1.00, 1,000 for \$7.50.  
Not transplanted, by express, not prepaid, 100 for 75c, 1,000 for \$5.00.  
**SPECIAL TOMATO.**  
Transplanted plants only.  
**Majestic.** **Red Majestic.**  
**Yellow Majestic.** **Dwarf Stone.**  
By mail postpaid, doz. 40c, 100 \$2.00.  
**Pot Grown Plants,** doz. 75c, postpaid.

**VEGETABLE PLANT COLLECTION**  
**JUST ENOUGH FOR THE HOME GARDEN**  
**READY FOR MAILING MAY 1st.**  
It often happens that you would prefer to buy a few vegetable plants rather than bother with growing from seed. We appreciate this fact and offer you the following collection as a veritable bargain:  
**12 Tomatoes, 25 Early Cabbage, 6 Pepper, 6 Egg Plant, 25 Celery, 50 Sweet Potatoes.**  
All by mail, postpaid, for \$1.00.

**ASPARAGUS ROOTS**

It pays to have a small bed of asparagus so as to gather it fresh, and when once set, a bed will last many years. Our roots are strong and healthy. We recommend the one-year-old roots as more desirable for general planting than the two-year-old, as well as cheaper. Ask for circular giving directions for planting.

**CONOVER'S COLOSSAL.**—One year plants.—Per doz. 25c, 100 for 90c, postpaid. By express or freight, not prepaid, 100 for 60c, 1,000 for \$4.00.  
**Two year plants.**—Per doz. 50c, 100 for \$1.40, postpaid. By express or freight, not prepaid, 100 for 90c, 1,000 for \$6.00.  
**PALMETTO.**—One year plants.—Per doz. 30c, 100 for \$1.00, postpaid. By express or freight, not prepaid, 100 for 75c, 1,000 for \$5.00.  
**Two year plants.**—Per doz. 55c, 100 for \$1.50, postpaid. By express or freight, not prepaid, 100 for \$1.00, 1,000 for \$6.50.  
**COLUMBIAN MAMMOTH WHITE.**—Per doz. 30c, 100 for \$1.10, postpaid. By express or freight, not prepaid, 100 for 75c, 1,000 for \$5.00.  
**Two year plants.**—Per doz. 55c, 100 for \$1.50, postpaid. By express or freight, not prepaid, 100 for \$1.00, 1,000 for \$6.50

**RHUBARB ROOTS**

Everyone realizes the value of rhubarb or pie plant in the home garden. The best way to get a start is to purchase a few roots, as you can save one year's time in this way. The roots we offer are not seedlings but large divided plants. Plant in spring or fall, setting plants 3 feet apart each way.

**VICTORIA.**—The standard for general use. Each 15c, 5 for 70c, dozen \$1.50, postpaid. By express, not prepaid, per doz. \$1.00.

**IDEAL MAMMOTH.**—The largest and best variety. See description in vegetable seed department. Strong roots 25c each, doz. \$2.00, postpaid. By express, not prepaid, per doz. \$1.50.



GARLIC ROOTS.



HORSE RADISH SETS

**HORSERADISH**

Grow it in your own garden and grate fresh. Plant the sets small end down in rows 2 feet apart, about 18 inches apart in the row. It does best in rich, loose soil set slanting and covered about two to three inches. Doz. 15c, 100 75c, postpaid. By express, per 100 50c, 1,000 for \$4.00.

**GARLIC**

Species of onion propagated by dividing the bulbs into small pieces, planting each one separately. It is quite pungent and is used for flavoring soups, stews, etc. Per lb. 40c, postpaid. By exp., lb. 25c, 10 lbs. \$2.25.

THERE ARE SEVERAL KINDS OF ONION SETS LISTED IN THIS CATALOGUE ON PAGE 21. THEY ARE NOT EXPENSIVE.



MAKES FINE QUALITY HAY**SUDAN GRASS**WONDERFULLY PRODUCTIVE**A MOST VALUABLE QUICK GROWING PLANT FOR AN ANNUAL HAY CROP**

This is a new annual grass that is causing a great deal of inquiry throughout the country. It is very highly recommended by the United States Department of Agriculture, who brought it to this country from the Egyptian Sudan, in 1909, and since growing it upon our own farms we give our recommendation and urge our customers to try it.

We offered Sudan Grass to our friends last year without our recommendation, because it was a comparatively new plant and had not been grown in Iowa. It was widely advertised, and we offered it in deference to inquiry from our friends. We purchased seed from growers in Texas and planted a small plot of a few acres at our Altoona farm. It grew so splendidly and made such a magnificent crop of hay that this year we are urging our friends who need an annual hay crop to plant Sudan Grass, believing it will produce more tonnage per acre than any other grass now grown. We know that it thrives in Iowa and from the

short time required for maturity we believe it can be grown anywhere in the United States with satisfactory results.

We recommend Sudan Grass to take the place of the millets as a summer hay crop. This in our judgment is its most valued place in the agriculture of Iowa. It will do as a substitute for sorghum for fodder or Kaffir, Milo and Feterita as a forage plant, but we do not consider it as valuable in any form as if only for hay. In quality it is far superior to the millets. It does not get "dusty," nor is it so "seedy" as millet hay, while it will yield much larger quantities per acre than any variety of millet generally grown. The seed is not expensive, and when the small quantity required per acre is considered, you will see that you can grow a crop of it at less cost than any of the millets. It costs more to produce Sudan Grass seed in Iowa than in the South, hence we are asking a higher price for home grown stocks. We will send whichever you prefer.



Prof. Jas. Atkinson, Editor of the Iowa Homestead, in the field of Sudan Grass at the Iowa Seed Farm

Sudan Grass belongs to the same family as the sorghums, and the Kaffir corn, and like plants, but does not grow so coarse, while producing fully as much leaf growth in proportion to the crop. It grows to a height of seven or eight feet, and the stalks vary in size from that of a lead pencil to a half inch in diameter. It is not difficult to cure, and it is claimed by those who have fed it to live stock to contain a great amount of food value.

Owing to the great similarity of Sudan Grass and Johnson Grass, care has to be taken in the selection of the seed. Johnson Grass is a perennial—that is to say, when once established it is hard to get rid of, as the winters do not destroy it. We have not offered Johnson Grass for a number of years because of this fact, and because it was unpopular with our farmers. The Sudan Grass, however, being annual in its nature, does not survive the winter and is not obnoxious nor difficult to get rid of.

Sudan Grass may be planted in cultivated rows, in close drills, or broadcast. If in cultivated rows, we recommend they be made 36 inches apart, using about 3 lbs. of seed per acre. It stools wonderfully if given room; this planting will produce a tremendous crop. Sometimes as much as fifteen or twenty tons per acre is produced. In the dry regions this is the best planting process. Usually the crop can be cut twice during the summer, making a second growth from the roots when the first cutting is removed.

Where there is plenty of rainfall, it may be sown in drills 18 inches apart, using 6 lbs. per acre, or it may be sown broadcast, using 15 to 20 lbs. per acre. Either method makes a solid mass of hay, but in our judgment the broadcast method produces finer quality hay, although not so much tonnage.

By the broadcast method recommended we mean either seeding and harrowing, or using the grain drill as in sowing rye or other small grained cereals.

As with millet and cane and other plants of similar nature, we believe in heavy seeding for Sudan Grass, because what is lacking in quantity is more than made up in quality, and if sown thickly as suggested in the last paragraph, live stock can consume the entire crop.

Because it belongs to the millet and sorghum family, it is not to be planted until the ground is thoroughly warm. Our recommendation is early June. In some seasons it might be started at corn planting time in May, but we believe as good results can be obtained by sowing after the corn has been planted, and is out of the way.

**PRICES:** Southern Grown Seed—Per lb. 20c, 3 lbs. 50c, postpaid. By express or freight, not prepaid, 10 lbs. \$1.50, 100 lbs. \$12.00. Iowa Grown Seed—Per lb. 40c, 3 lbs. \$1.00, postpaid. By express or freight, not prepaid, 10 lbs. \$3.00, 100 lbs. \$25.00.

**WE URGE EVERY FARMER CUSTOMER TO TRY A FEW ACRES OF SUDAN GRASS. IT WILL PROVE VERY PROFITABLE.**





FARMERS' RELIANCE

IOWA SILVER MINE

THE PROFIT

IOWA GOLD MINE

## THE BIG FOUR FOR 1916

Thousands of farmers will this year purchase seed corn. We set forth above an actual photograph illustrating true types of our four leading varieties, that you may choose intelligently. Each sort is more fully described in the following pages, but this illustration is so perfect we hope you will give it careful attention. It is the time for you to change your seed and start a new deal on the firm foundation of thoroughbred pedigreed seed.

### THEY WILL GIVE YOU RESULTS

We have other good varieties of corn, as you will see by reading the following pages of our catalogue, but our stocks of the four varieties illustrated here are so exceptionally choice, and we have such large quantities of the very finest seed of these varieties, that we desired to especially urge our friends to plant them this year. Each has its special value, but any one of them will be satisfactory. All will prove profitable and any of them produce more than double official average per acre of ordinary Iowa corn.

Another reason for urging these varieties to our customers arises from the fact that hundreds of farmer friends have visited our store and warehouse in search of seed corn, making personal inspection of our stocks, with the result that the four varieties specially offered this season are by far the most popular, when compared with our choice stocks of other kinds. We are therefore persuaded that we are offering you as special the very varieties you would select if you had opportunity to look over our stocks.

### WHY WE PUSH THE BIG FOUR

You can buy seed corn of us that will produce a crop anywhere in the corn belt. Don't think because you are 150 miles north of Des Moines that our corn will not do in your section, for we have varieties specially suited to your locality, and will produce better crops than home grown seed. Don't think it will not pay to raise these varieties south of us. The experience of our customers in the South for many years has demonstrated that our seed corn grows more vigorously, produces larger crops and better quality corn than the slow maturing varieties usually grown in the South. We ship seed corn all over the United States. We have exported seed corn to Mexico, Central and South America, Australia, Africa and New Zealand and never yet

has failure to mature them been reported in seasons when any corn has ripened. There are many reasons for this but the main reason is that our seed corn is grown in the best spot on earth for growth of corn—Central Iowa. It is a recognized fact that any seed crop is better when grown in a locality suited to its growth, hence the best seed corn is grown in the center of the queen of corn states—Iowa.

### IOWA SILVER MINE

Our premier variety, introduced by us in 1895. This corn has furnished the basis from which many greatly advertised new white varieties were originated, yet we fail to find among any of these later sorts any equal to our own strain of Silver Mine, grown continuously by us for twenty years, selecting our own stocks each year, maintaining the original beautiful type, and keeping up the productiveness that has made it the most popular corn in the world.

### IOWA GOLD MINE

Deepest grained, smallest cob and handsomest corn in existence. The corn that will furnish more feed per bushel than any corn in our list. Its earliness makes it a desirable variety for any portion of the corn belt. It is grown with success from Minnesota, South Dakota and Wisconsin on the north to Arkansas and Texas on the south; from New York east to California west, and seed grown by us here produces good crops no matter where it is planted.

### THE PROFIT

Our oldest pedigreed variety. Thirty years of careful selection for a foundation. The very best feeding corn for central and southern corn belt farmers who can be assured of 100 days good corn weather. Will surprise the grower with its enormous yield of shelled corn of first quality. We have not pushed it as hard as other kinds but the demand for it has for several years exceeded amount we had to offer.

### FARMERS' RELIANCE

This is our extra early variety. It has many times matured in 90 days and never fails to produce a crop of sound corn in any season or locality. The ears are as large as Iowa Gold Mine, though of different type, the grain being smooth and not quite so deep, but thick and heavy. The earliest large corn and the largest early corn, and is most of all a sound, smooth, solid corn of substantial value.

Full description and prices of the Big Four and other valuable varieties of seed corn on the following pages.



# FARM SEED DEPARTMENT

**EXPERT PRODUCTION**
**EXPERT SUPERVISION**
**EXPERT SERVICE**
**THE SINCERE EFFORTS AND SPLENDID FACILITIES OF THE ENTIRE ESTABLISHMENT ARE AT YOUR SERVICE**

Our Farm Seed Department is run on strictly up-to-date lines. We are constantly adding to our equipment to improve the quality of our farm seed stocks. We can help every farmer in some way if he will patronize our farm seed department. A careful comparison of the crops he is now producing with the stocks we offer will certainly show in our favor somewhere along the line. If your corn is beginning to run out or becomes barren, we can supply the foundation for increased yields and thoroughbred stock. If the small grain has failed in any way or has become diseased, we can supply choice seeds of the sorts that have proven best by test. If you need grass seeds of any kind we can furnish seed of better quality than you can procure elsewhere. Perhaps you think these statements rather strong. They are strong, but we are willing to back them up by submitting free samples for comparison before you buy. We are also willing to give you privilege of inspection and test for fifteen days after receiving them and will take them back within that time and return your money if they do not please.

**Let us help you improve your crops, both in quality and quantity**

We put time and money and painstaking care into the farm seed line. We have to. We must supply better seeds than you can get elsewhere if we are to have your trade. The present-day farmer raises good grains and if we are to surpass him in quality, we have to keep wide awake and progressive. If our grass seeds are to excel in purity and vitality, it requires the closest scrutiny in buying and cleaning. We ask your trade solely upon our ability to please you.

**PRICES** named in this department are always subject to important market changes. All quotations are net and are not subject to any premium or discount. Clover and grass seeds are constantly varying in value, and we issue a red ink price list daily during the busy season. Please write for quotations.

sending list of requirements when in need. Orders sent us will be given benefit of lowest prices on day order is received. Will take pleasure in mailing samples and quoting inside prices at any time on large orders.

**SHIPPING.**—In this department everything that is quoted by the packet or pound is sent by mail, postpaid; all larger quantities, unless noted, are sent by express or freight at the expense of the purchaser. Prices named include bags and delivering to depot here.

**ABOUT WARRANTING.**—We thoroughly test all our seeds and nothing is sent out which we do not believe to be good in every respect. However, we give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned, and the money paid for same will be refunded. We know of no responsible seed firm in the world which guarantees seeds any further than this. Compare with other seed catalogues and you will find we are right.

## SOME NEW SPECIAL EQUIPMENT

We have a number of special machines and devices for improving our farm seeds, and think we are better equipped than any other house in the West to do this work at least cost.

### OUR CLEANING MILLS

are large Clipper machines equipped with a hundred different screens, so that perfect grading and separation is possible. They are the best made for close work and give splendid results.

### A GRADING MACHINE

for separating wheat from oats or mixtures of grain of any kind. Operates on the gravity principle and will do the work of separation perfectly. It also separates clover from timothy and takes weeds out of grass seeds that cannot be removed by the screen and wind process of the ordinary fanning mills.

### THE HESS GRAIN DRYER

Installed at a cost of hundreds of dollars, to dry any grain or seeds that are immature at harvest, and to protect the germ by artificial ripening. Has proven valuable seasons like the present when corn and other grains were damaged by excessive rainfall.

### SCARIFYING MACHINE

We purchased through Prof. H. D. Hughes, of the Iowa Agricultural College, who is the inventor, one of these machines, for the express purpose of scarifying sweet clover seed to increase germination. It will also scarify red clover, alfalfa or other hard hull seeds, and this will be done in any case where necessary to aid the percentage test.



WAREHOUSE, 208-210-212 SOUTH EIGHTH ST.,  
WHERE ORDERS FOR FARM SEEDS ARE FILLED.

## SHIPPING WAREHOUSE

Has side-track capacity for seven cars at once, and loading stations for five wagons at the same time. It houses the most modern electric cleaning machinery, with capacity for 1,000 bushels of grass seed per day. It contains a seed drier which will thoroughly cure a car load of grain each day. The superintendent of this department has been with the house more than twenty years in that position, and the business has increased ten fold in that time.

## OUR NEW ELEVATOR

Erected a few years ago at Altoona. We did not have room in the city for the immense amounts of grain necessary for our trade and we built this elevator with numerous separate bins; with a storage capacity so that we might have a place to store the excess seed grain until needed for shipment, and quickly execute large orders for car lots. It is equipped with electric cleaning and grading machinery to improve the quality of the grain as it comes in from the threshers, and we can handle a car load through the elevator in less than one hour if necessary.

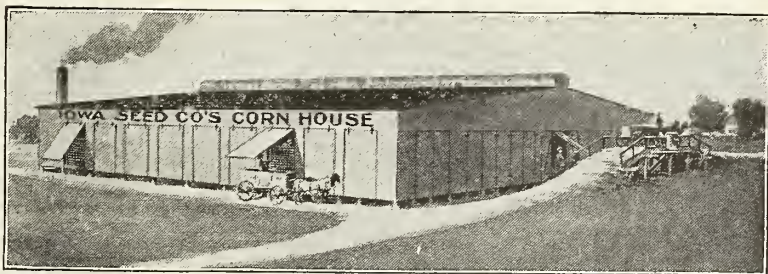
The above are only a few of the many special processes employed, but we have not room to enumerate further. Stocks supplied will tell the story.

## OUR SEED CORN HOUSE

At Altoona, eleven miles east of Des Moines, is, we are sure, the best arranged and most complete building in America for this purpose. The outside walls are made up almost entirely of doors which can be lifted for ventilation and are in fact kept open all the time except during very cold or stormy weather. The interior arrangements consist mainly of very narrow high cribs with ventilators running through the entire length of them and narrow passages between the cribs. There is a very extensive system of steam pipes underneath which are used as needed for drying the corn and also to keep out moisture during foggy weather and to protect it from freezing.



OUR NEW SEED GRAIN ELEVATOR AT ALTOONA



SEED CORN HOUSE AT ALTOONA

**WE MAKE NO CHARGE FOR BAGS. THEY ARE FURNISHED FREE WITH SEED PURCHASES AT OUR CATALOGUE PRICES**



# SEED CORN OF QUALITY

**GROWN, SELECTED, CURED, GRADED AND TESTED BY THE IOWA SEED CO.**

Thousands of farmers throughout the Middle West will want to purchase seed corn this year because of the failure of the 1915 crop. This is particularly the time to make a change of stocks or variety, and improve the future crops by starting now with thoroughbred corn of extra quality. It is not safe to use the ordinary corn of the past season for seed purposes. It is claimed that not more than 25 per cent of the Iowa crops reached maturity in 1915. Much of the so-called mature corn will not be fit for seed because of mold around the cob which destroyed the germ. You cannot afford to take chances with 1915 corn unless you give it the greatest care and closest inspection and test before planting it. This is the work we do for you. We have splendid stocks to start with, give it particular inspection and test before shelling, thoroughly grade and then test it again before sending it out on order. We know when the corn leaves our house that the vitality is strong and that it will make a stand unless conditions are unfavorable.

## OUR PRICES ARE LOW

It costs a great deal more to make seed corn in a season like the present one than it did last year. We feel, however, that it is unfair to the farmers to take advantage of unfavorable conditions. If there is ever a time when we can do the farmer most service, it is when he needs seeds because of crop failure. If you will compare our prices this year with those of former seasons you will note that only in one or two cases has any advance in price been made, and these advances are necessary because of the tremen-

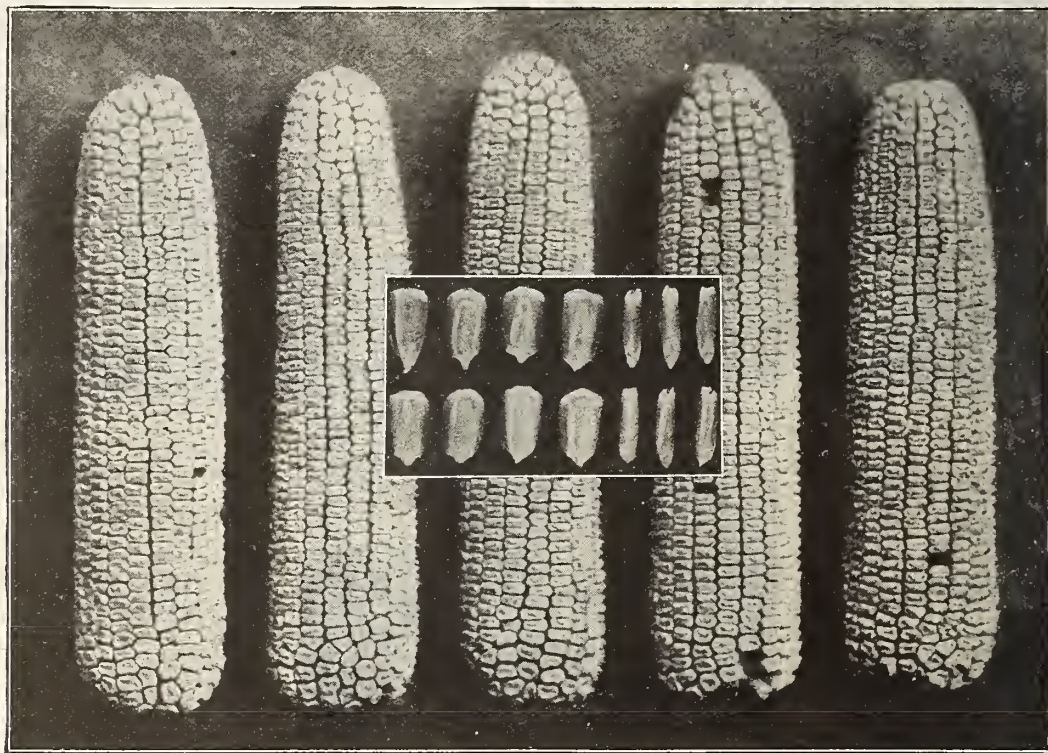
## OUR CUSTOMERS ARE SATISFIED

Every year we sell immense quantities of seed corn ranging from 7,000 to 30,000 bushels per year, according to the season. With all this immense business we do not have any complaints regarding purity, type or yielding quality of our stocks. There is a reason. We take particular pains to tell the truth about our corn, point out the distinctive features of the different varieties, and state plainly the districts to which they are adapted. The customer cannot go astray. Our part of the work is performed with discrimination. Our friends get results that are satisfactory, and the yields produced are uniformly greater than from ordinary stocks.

## A HUNDRED BUSHELS PER ACRE

Do you raise a hundred bushels of corn to the acre? If not, why not? It is not an impossibility. There are hundreds of verified records of even greater yields than this. It is not a difficult thing to do. Of course, soil conditions must be right. If your soil is not in its best possible form, the fault lies with you. By a well managed rotation or the use of soiling crops and manures you can always correct the faults of the soil. Given good soil, the next step is good seed. It does not pay to use any but the very choicest thoroughbred seed, no matter what the conditions. The third requirement is intelligent cultivation.

Is our seed corn any better than the kind you are growing? We do not know. We do know this, however; that the seed corn we sell is most carefully inspected and sorted for type and purity before shelling. It is thor-



dous added expenses necessary to the production of first class seeds. We are making low prices because we look for a heavy demand with greatly increased sales, and we hope thereby to bring the cost to a reasonable average.

## IT IS WORTH THE COST

What is the value of a bushel of seed corn? Every farmer answers this question according to his ideas of seed corn. There is and can be no fixed price or standard. Ten ears have been sold for two hundred dollars, while more frequently seed has been selected from corn bought on the market at fifty cents per bushel. We have been producing seed corn for thirty years. Experience has taught the operations necessary to produce seed of the highest type and quality, and we have so systematized the labor that we are able to make good seed for less than would be required under ordinary conditions. With us, the work has become standardized, so that the cost of seed corn varies but a small amount from one year with another. Our price to you is based upon the cost to us, and we offer you our seed corn at as low prices as possible under the methods we use. Compared to real value, however, and from the standpoint of results, we do not think you can buy corn of equal quality for so low a price anywhere in this country.

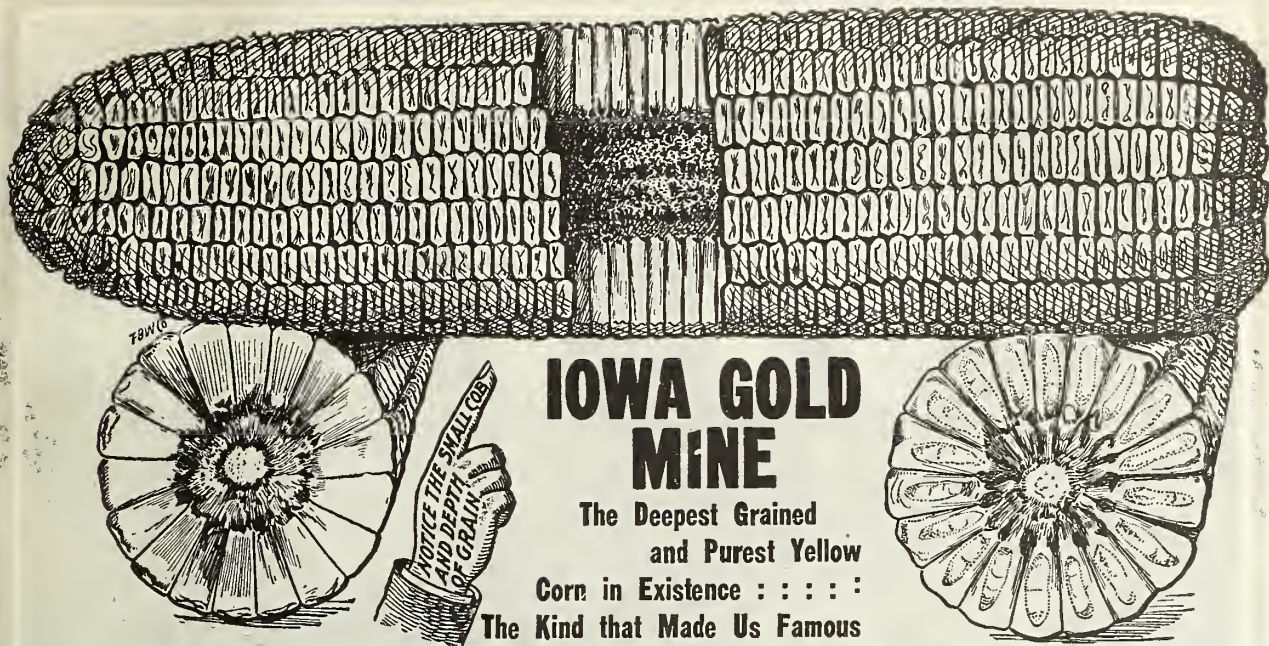
oughly graded and tested to insure strong and even vitality. With such corn as this, planted three grains to the hill, you ought to have more than ten thousand stalks to the acre and at least one good ear to each stalk. Such results mean more than a hundred bushels per acre.

## OUR SEED WILL BEAR INSPECTION

We do not sell ear corn. In selecting, sorting and testing, most of the ears shell off some grains and naturally are not fit to send out as ear samples, although they may have been perfect when picked. Our reputation is behind every bushel of seed corn we send out and results will show the purity and quality of our varieties. We could not afford to send out poor seed, or mixed stocks. You do not have to take our word for the vitality or evenness of the seed because it is sold to you subject to your approval. Examine it and test it thoroughly. Have it tested by someone if in doubt. We give you fifteen days after receipt of the corn to make this inspection and test, and if the corn is not satisfactory return it and the money you sent will be refunded. We cannot guarantee a crop, but we protect you as far as possible and only ask you to believe our statements regarding purity and yielding qualities.

**READ CAREFULLY THE DESCRIPTIONS OF THE DIFFERENT VARIETIES OF CORN OFFERED ON THE FOLLOWING PAGES.**





## IOWA GOLD MINE

The Deepest Grained  
and Purest Yellow

Corn in Existence : : : :

The Kind that Made Us Famous

### THE GREATEST CROP FOR THE NORTHERN FARMER OR FOR THE LIVE STOCK FEEDER

The season of 1915 will be long remembered by Iowa corn growers as the year of failure. We believe there was less sound corn in the state last fall than any previous year since Iowa took her place as the greatest corn producing state. Millions of bushels of Iowa corn were fed in immature condition to avoid loss. The results this season were a vindication of our claims for Iowa Gold Mine corn. We got better results from it than from any other variety. It fully demonstrated its value by producing a far greater percentage of sound corn than other kinds, and also by far greater yields under the remarkably adverse conditions of the season. It proves to our satisfaction that Gold Mine is not only valuable under normal conditions and favorable seasons, but by far the best in times of real danger from excessive rains or early frosts.

### THE GOLD MINE IS BEST OF ALL

It ripens in ninety-five days and never fails to mature. It does not mold or spoil if cribbed at proper time, and is the most certain to succeed in adverse seasons. It is all corn and corn of extra quality. We have sold it for twenty-five years, and each season we have a higher opinion of its value. Our farmers want great big corn. We think this is a mistake. We believe a medium-sized corn of the quality of our Gold Mine—one that can always be depended upon to ripen—is to be preferred to the larger, later sorts. This view is confirmed by thousands of testimonials as to the productiveness and quality of the Gold Mine from farmers who plant for home consumption. Plant three in a hill, on strong, rich ground, give it good cultivation and you will produce as many bushels of ears per acre as you can of the larger kinds and a much greater quantity of shelled corn—the real test of value to the feeder. It would seem at casual glance that a variety of corn would cease to hold its place among the leaders after twenty-five years. We have maintained Gold Mine among the five leading sorts by constant selection of stocks, by keeping it true to type in spite of all temptations to increase the size of the ear and stalk. We have found that to increase the size of the ear means larger cob and less corn, a larger stalk means slower growth and later maturity. In other words, if you secure advance in size you lose earliness, soundness and depth of grain, and the gains do not offset the losses. You will find these advantages fully as great compared with any of the present-day large sorts. We breed Gold Mine constantly to the rough type, with open grain and extra small cob. Ordinary field culture in a few years reduces the hackle until the corn is almost smooth. It also grows more compact upon the cob.

### SOME SHORT STATEMENTS ABOUT GOLD MINE.

From New York: "I bought some Iowa Gold Mine Corn of you, and it is the best corn I ever used in my life."

From Wisconsin: "The Iowa Gold Mine Corn is the best I ever saw, and it is well adapted to this climate."

From Colorado: "Your Iowa Gold Mine Corn was early and stood the drouth remarkably well. I never made a better investment in my life."

From Illinois: "The Iowa Gold Mine Corn yielded three times as much as any other variety. Think it is the best corn I have ever seen."

From Ohio: "I purchased some Iowa Gold Mine Corn of you which did exceedingly well here. I took three premiums on it at three different county fairs."

From Missouri: "I think Iowa Gold Mine the best corn of all, and am perfectly satisfied with it."

From Kansas: "The Iowa Gold Mine Corn I got from you has done fine. It has been in ear two weeks ahead of any other field corn."

From Texas: "From your sample package of Iowa Gold Mine Corn I had just twenty four stalks and there were sixty four ears on them."

From Iowa: "The Iowa Gold Mine Corn surprises everyone by its deep grain and small cob. It shells out about six pounds to the bushel more than any other sort."

### A FEW OPINIONS OF IOWA SILVER MINE.

From Arkansas: "The seeds purchased from you produced the finest yields ever seen in our country. The Iowa Silver Mine corn yielded 188 bushels per acre."

From Missouri: "I planted the Silver Mine on a piece of land a little less than one acre. The other day I husked 12 shocks and got 42 bushels of good corn. At this rate I will harvest about 131 bushels of corn per acre."

From Kansas: "I am especially pleased with the Iowa Silver Mine Corn, and it is worth five times the kind I have been growing."

From Iowa: "I don't think a better quality of corn can be found than the Iowa Silver Mine and it yielded 114 bushels per acre for me."

### ONLY SIX POUNDS OF COBS

Seventy pounds of Iowa Gold Mine on the ear will make 62 to 63 lbs. of shelled corn. This is the smallest proportion of cob of any variety. We have shelled selected ears of this corn which produced only 6 lbs. of cob per bushel. This is an unparalleled record. It cannot be equalled by any other corn in the world. One carload lot of 400 bushels of Iowa Gold Mine corn was carefully weighed, and after shelling was re-weighed and there was just 456 bushels. Just think of it—a gain of 14 bushels to the 100. You can see from these figures that if you are to sell this corn it should be either sold as shelled corn, or a premium demanded for the corn in the ear. You cannot afford to sell 70 lbs. of ear corn of the Iowa Gold Mine for a bushel as you are actually giving the buyer six or seven extra pounds, worth five cents at ordinary market value.

### GRAIN IS OF SUPERIOR QUALITY

You can readily understand its exceeding great value to the feeder. The figures given above demonstrate that there is very little waste, but they do not show the features which are so much superior to other kinds—the soft grain and the oil and sugar content that make it so readily digestible by the stock. There is really ten per cent more feeding value in Iowa Gold Mine pound for pound than in the ordinary sorts, and an acre of Gold Mine producing sixty bushels is worth as much to the feeder as a seventy bushel yield of any other variety.

This year we have a splendid crop of thousands of bushels of choice seed, carefully selected, cured and graded, and yet, knowing the immense demand that is sure to come to us for Iowa Gold Mine, we urge our friends to send their orders early.

**PRICES:** Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, by mail or express prepaid. By freight or express not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. \$27.50. Ask for prices in quantity.

We are the original introducers of Iowa Silver Mine and Iowa Gold Mine and if you want pure, thoroughbred seed of these varieties it must be purchased of us. We have proof that some other dealers are copying our descriptions and selling common corn under these names. The cost of our pure seed is only about 45 cents per acre. One bushel per acre added to your crop will pay for the seed used.

SEED FOR ONE ACRE OF ANY OF OUR CHOICE VARIETIES FOR \$1.00. TWO BUSHELS ADDED TO YIELD PAYS COST OF SEED.



Prize Winner  
Where

# IOWA SILVER MINE CORN

215 Bushels  
Per Acre

THE WORLD WIDE FAVORITE WHITE VARIETY  
THE CORN THAT ALWAYS MAKES A CROP



## GROWN EVERYWHERE

A change of location seems in no way to diminish yield or impair quality of the Iowa Silver Mine when grown from our seed. We have reports from customers in Egypt, South Africa, Australia, Central America, Mexico and the West Indian Islands, as well as from all parts of the United States, praising in the highest terms the Iowa Silver Mine Corn produced from seed purchased of us. So widespread has been the dissemination of this variety, and so universal the success of the planters that without hesitation we recommend Iowa Silver Mine for all corn planters except possibly the extreme North.

It is twenty years since we purchased the original stock of Iowa Silver Mine for the sum of \$1,000 in cash. Each year the stock has been carefully selected to maintain all its superior qualities and we have grown it with care, giving it good soil and cultivation, and isolating it to prevent mixture or taint from any other variety. Our stock is of the original, purchased by us in 1895 and bred continuously since that time under the personal direction of our seed corn experts, who have thirty years' experience as their guide.

## IT IS TRULY THOROUGHbred

The stalk grows to a height of about 7 or 8 feet and sets the ears about  $3\frac{1}{2}$  or 4 feet from the ground, just the right height for easy picking. One peculiarity which will be noticed in going over the fields is that there are no barren stalks; every one has an ear, many stalks have two or three good ears, and the originator says that has been characteristic every year that he has grown it. Type is very even. Ears measuring from 10 to 12 inches in length, and weighing  $1\frac{1}{2}$  pounds, are often found. The ears are very uniform in size and shape, with sixteen to twenty straight rows (usually eighteen rows) of deep, pure white kernels, set on small, white cob, and ears are well filled out over the tips. It is early, maturing in ninety-five days. The cob dries rapidly, so that it is ready for market earlier than any other large white field corn. Seventy pounds in the ear will make sixty-two shelled. It is adapted to a wider range of soil and climate than any other corn ever offered. It is in every way a distinct type of corn, hardy, and a wonderful resister of drought.

There is a prejudice in the minds of some farmers against white corn. In the markets now, however, white corn sells at a premium, and if you want to obtain the very highest price for your corn, grow Iowa Silver Mine and sell it before shipping. We sell the Silver Mine surplus and such as is rejected for seed for a greater price than the yellow varieties.

## HERE IS A PART OF ITS RECORD

Everywhere the Iowa Silver Mine captures the prizes over all other varieties. At one fair ten of the largest ears took first prize, ten of the smaller ears took second prize. Afterwards the same ten large ears took sweepstakes over all varieties, both white and yellow, making a total of \$95.00 in prizes taken at one fair by twenty ears of the Iowa Silver Mine Corn. It captured the big prize offered by us in 1896, for the largest crop, against all other kinds of any color, yielding 215 bushels. At the Illinois State Fair it took first premium for the best bushel of corn, any color or sort; first for best white corn in the state, grand sweepstakes for best corn, any color, competition open to the world. In 1899, the Illinois State Agricultural Society offered three large prizes for the largest crop grown on one acre, and Iowa Silver Mine captured all three with crops of 196, 176 and 154 bu. per acre. No other corn, any color, can compare with it for productiveness.

Read the Astonishing Record of Our Own Prize Contest. It produced 215 bu. per acre in Scott Co., Iowa, the crop being actually inspected by a member of our firm. It yielded 211 bu. per acre in Indiana; 201 bu. in Arkansas; 178 bu. in Illinois; 145 bu. in Ohio; 137 bu. per acre in Texas.

**PRICES:** For high grade extra select seed corn postpaid or by express prepaid: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00. By frt. or exp., not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85, 10 bu. or more at \$2.75 per bushel. Write for prices in quantity.

WE ARE SURE YOU WILL BE PLEASED WITH THE PROFITABLE RESULTS FROM OUR SEED CORN AT HARVEST TIME.





## PROSPERITY

### Our Improved Strain of Reid's Yellow Dent

Reid's Yellow Dent is the most generally grown of any of the yellow varieties throughout the central portion of the great corn belt. It is not, in our opinion, a perfect corn. It has a large, compact cob and the grains are set so closely together that it frequently molds in curing. This trouble destroys the vitality of the seed and makes the corn unfit for feeding. In a short season or a wet fall this fault is most pronounced and results in much waste and loss. The Prosperity is of a rougher type than the ordinary Reid's Dent. The grains are slightly hackled and are not so compact on the cob. This habit of growth permits the cob to dry more readily and avoids much of the loss by mold. The cob averages smaller and dries much more quickly so that Prosperity will mature earlier than Reid's Dent and will be sound and dry in seasons when a large proportion of the common type will spoil from dampness or early frost. We believe our Prosperity to be a real improvement in practical results, and it is for practical results we breed seed corn. The history of the Prosperity Corn goes back to 1893. We have grown it continuously since that time, the foundation stock being the ten champion ears of yellow corn shown at the Chicago World's Fair. The type is thoroughly fixed and is a truly thoroughbred sort. It produces an extra vigorous stalk, strong and well rooted, standing storms better than most sorts. Stalks grow eight to nine feet tall with abundant broad leaves, and bears the ears at a height easily harvested. The ears are large, 10 to 12 inches long, nearly cylindrical,

holding their size well to the end, and are well rounded or capped over at both ends. Cobs are dark red, medium size, grain a fine yellow color, rather slender in form and of good depth. We can recommend Prosperity as a splendid corn for the central corn belt, and believe it to be superior to the ordinary Reid's Dent in every respect.

**PRICES:** Pkt. 5c, lb. 25c, 3 lbs. 60c, charges prepaid. By freight, purchaser's expense, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. for \$27.50.

In my test the new Prosperity Corn matured well, making very uniform, good shaped, sound ears of rich yellow color and deep kernels.—Geo. M. Fox, Dallas County, Iowa.

Your Silver Mine Corn grew splendidly and ripened sufficiently to make seed corn 100 miles north of St. Paul.—Francis Maddox, Crow Wing County, Minnesota.

I have seven acres of Farmer's Reliance that will make 80 or 90 bushels per acre. It is by far the best corn I know of around here. It was planted June 14th.—Geo. W. Brown, Ross County, Ohio.

## GRADED SEED CORN

We carefully grade all seed corn which we send out, removing the extreme tip and butt kernels so that it is readily planted with edge-dropping corn planters. But the grading is only a part of the labor which we give to the production of good seed corn. All varieties are carefully grown under the direct supervision of the president of our company. It is gathered early, and stored in our seed corn house, where every ear is carefully inspected by experts and only those absolutely true to type and of strong vitality are shelled for seed purposes. You cannot buy better seed corn in America, no matter what the price.

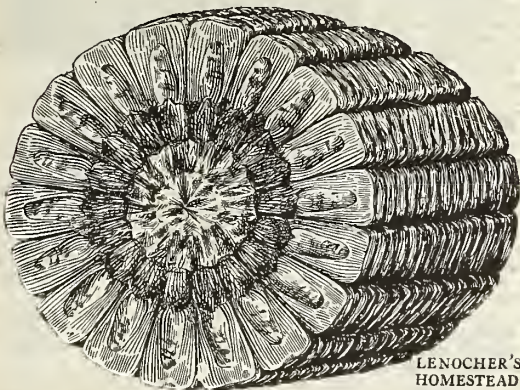
## LENOCHER'S HOMESTEAD

### The Greatest Red Corn Ever Produced

#### A Hundred Bushels Per Acre Variety

This is the corn that won the Iowa Homestead prize of \$100 for the best three acres of corn grown under ordinary methods. The crop produced yielded 345 bushels on the three acres on the farm of Mr. G. F. Lenoher, a practical farmer and feeder of Dallas County, Iowa. We made arrangements with Mr. Lenoher to introduce the corn to the public and gave it the name of Lenoher's Homestead and have offered it for sixteen years. It is given as great care with us as our other sorts and our stock is carefully selected for seed purposes. The color is a rich dark red with occasional light caps; grain deep and hackled; ear somewhat above the average with small cob which dries out rapidly so that it is not likely to be caught by frost. It is perfectly safe corn to plant in central and southern districts of Iowa and may be grown anywhere that Iowa Silver Mine matures. It is a splendid silage corn for all locations, and produces good crops in unfavorable seasons when other corns will hardly make nubbins. Don't let your prejudice against red corn prevent a trial of this splendid corn, for we give you our assurance that it will produce more actual corn per acre than the kind you are growing, and it makes just as good feed as any other sort. There is no prejudice on the part of the live stock or the silo against red corn and if you plant Lenoher's Homestead the great yield per acre will overcome your prejudice.

**PRICES:** Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, by mail or express, prepaid. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bushels or more at \$2.85 per bu., 10 bushels for \$27.50.



LENOCHER'S  
HOMESTEAD

Your Lenoher's Homestead corn is out of sight. My neighbors bought all I could spare for seed purposes, and I had hard work to keep seed enough for my own use.—Frank Degnan, Seneca County, Illinois.

Lenoher's Homestead is the best corn I ever fed. Earliest variety in these parts.—J. Abrie, Doniphan Co., Kan.

WE HAVE ROOM TO PUBLISH ONLY A FEW OF THE MANY TESTIMONIALS SENT TO US. THEY COME IN EVERY DAY.



# THE PROFIT CORN

OUR OLDEST THOROUGHbred CORN. MORE  
THAN THIRTY YEARS OF PEDIGREE

WE BELIEVE THIS CORN WILL PRODUCE MORE ACTUAL FEED  
PER ACRE THAN ANY PLANT THE FARMER CAN RAISE

NOTHING EQUALS IT IN LOW COST PER POUND

This variety will produce 100 bushels of ear corn per acre. In addition to a heavy yield of grain, it will also produce an immense amount of fodder or stalks for ensilage. If you have a silo, there is no corn in the entire list that will approach it in value to you. We believe that every farmer nowadays appreciates the value of the silo and we know that they are building thousands of them every year. The farmers appreciate the saving to them by the use of these buildings, but if you plant small corn, or the ordinary types, from which to fill the silo, you do not secure the full returns from your fields. With the expense incurred, you have a right to expect the greatest returns for the money invested. This can only be secured where you produce the largest quantity of feed per acre that it is possible to raise upon the land. We offer you the Profit Corn to meet this need.

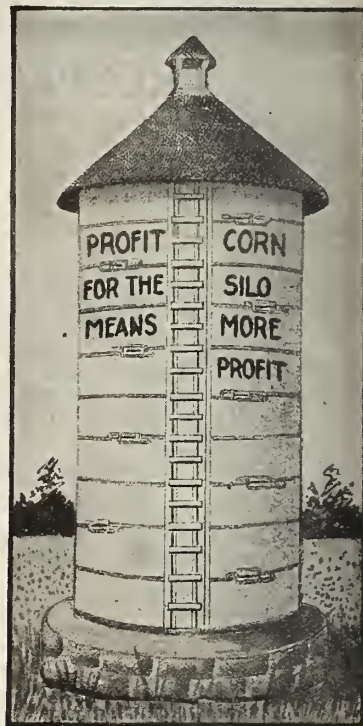
Corn for the silo does not necessarily have to be fully matured like it does if you are to crib it on the ear. If you are in the northern part of Iowa, or the Corn Belt, you can raise Profit Corn for silage, but we would not advise you to plant it expecting to crib it in the ordinary manner. It will mature, however, wherever Reid's Dent can be successfully grown, and we think it will yield more corn, and we know it will produce more stalk than that well known variety. If you have a shredder, or if you use corn for fodder in any way, you will find no variety as valuable as the Profit. It produces big ears on big stalks. It contains the largest

## WE RECOMMEND IT HIGHLY AS A GENERAL PURPOSE CORN.

The purpose of the originator was to fix a type of field corn for profit, superior to any in cultivation, and profit in corn growing, as we understand it, means the largest crop of shelled corn (not cobs), maturing in a reasonably short time, and of the best quality. Ears of large size, the grain is very deep, cob small for size of ear and dries out rapidly, thus making it a sure cropper. Corn is solid on the cob, the kernels appearing driven in, and it shells out immensely.

This variety does not mature so quickly as either Gold Mine or Silver Mine, requiring 110 days, and we do not recommend it for planting in the extreme northern districts of Iowa. If a crop of grain is desired, or if the corn is to be sold in the ear, but we think it is the best corn for silage in the northern districts, as it will mature sufficiently for that purpose. It will do well in the two central and southern districts for all purposes, and we believe it will produce more bushels of shelled corn than any variety with which we are acquainted.

**PRICES:** Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre). \$1.00 by mail or express prepaid. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. for \$26.00.



## JUST A FEW REPORTS ABOUT PROFIT

A prominent Polk County (Iowa) farmer says: "Profit corn has out-yielded every other variety on my place. Ears are large, extremely solid, and grain is deep. It shells out more than other sorts."

A customer in Sullivan County, Mo., writes: "Your Profit corn was very satisfactory this year, although I planted it quite late in the season."

A neighbor to the west of us, living in Guthrie County, Iowa, says of the Profit corn: "I like it and shall plant entirely of it next season. It is solid and heavy and feels profitable while you are husking it. Matured better than any other corn, there being less loose or chaffy ears than usual with other varieties this season."

From over in Illinois comes the following report: "The Profit corn I received from you last spring has the right name. It is the best corn for stock. It grows large and is solid and also contains a greater proportion of fat than any corn in our country."

Still farther east, over in Ohio, we have a customer who writes us: "I was much pleased with your Profit corn this season, as it gave an exceedingly large yield."

Across the Missouri river in Nebraska the Profit has made friends. One of our customers reports: "Your Profit corn proved a great drouth resistor. Every stalk has a good ear, while other varieties of corn yielded but very little. If I had planted my fifty acres with Profit, even at your high price as I thought for seed, I would be many dollars ahead on my crop."

PROFIT CORN.

SEND US YOUR SEED CORN ORDERS THIS YEAR. YOU WILL NOT BE DISAPPOINTED WHEN CROP IS GATHERED THIS FALL.



# REID'S YELLOW DENT

## THE STANDARD VARIETY OF YELLOW CORN IN THE MIDDLE WEST

### THOROUGHbred, PEDIGREED, CAREFULLY SELECTED STOCK

#### A Splendid Strain of Sustained Purity and Excellence

Most farmers know the Reid's Dent Corn, and it is very popular because of the large, smooth, symmetrical ears, which are always uniform and make it one of the most attractive varieties for market selling. Because of its handsome appearance it is generally accepted as the show standard, and because of show record is widely known and generally distributed.

Our particular strain is far superior to the common strains found on most farms. Our original stock was direct from Mr. Reid, the introducer, and we have grown it continuously for many years. We have bred it to retain the purity of type and heavy yield. You can safely order Reid's Dent of us and be assured you will get superior stock of this superior sort.

It is grown at Altoona. The soil is heavy black loam, the land is high, in fact it is one of the highest points above sea level in the entire state. Our experience proves that seed corn produced in that locality will mature anywhere in Iowa. It is just as though grown in the northwest part of our state as regards latitude, and an advantage over that section because the soil is heavier and matures the corn more slowly. It is because of this location that our seed corn will successfully grow far to the north and is superior to most of the seed corn produced in other sections of the state.

### WE ARE BREEDERS OF SEED CORN

growing it here in Central Iowa, the best section for corn in the great corn belt of the United States. We have several seed corn specialists, who select stock seed for our crops. Each ear is critically examined in all points with greatest care and only the strong and vigorous in vitality, true to the ideal of each variety, are used. These ears must be uniform in shape and color, straight rows, tips well filled with large grains denoting vigor and strength, kernels uniform in color, depth, width, shape and such other points as are desirable and indicate well bred corn. The stock seed is given to careful growers who, for many years past, have made a specialty of growing seed corn exclusively for us, and know just how to handle the crops to secure best results. Our rule is to have each variety grown at least ninety rods from any other, in order to prevent becoming mixed. The greatest care is used in preparing and having the soil in best condition and in the cultivation of the crop.

We have special machinery and our seed corn is very carefully graded so it can be planted with the edge dropping corn planter. It is then tested by taking several lots of 100 kernels each from different bags or bins just as corn runs in bulk, the only way to get a true average test. Great care is taken through the whole process. Corn thus prepared is worth much more than ordinary crib corn, and we believe our seed is the best offered by the trade.

**WE THOROUGHLY CURE** our grain and seed corn. We purchased and erected in our warehouse a drier, especially for the purpose of kiln drying such of our seed grains and corn as might require artificial ripening to protect the germ. It will thus be seen that we have provided every possible protection for our customers so that they may be assured of clean, pure, and vital farm seeds for their planting, and on this basis we ask your trade.

Reid's Dent is not an early variety. It requires about 115 days to mature under favorable conditions and we do not, therefore, recommend it for planting north of Central Iowa. Sometimes it makes good crops in Minnesota, but it cannot be depended upon to ripen in short seasons in that latitude. If you can grow Reid's Dent, buy your seed from us. We will make good our claims of superiority by increased yield of splendid large corn at harvest time.

**PRICES:** Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, by mail or express, prepaid. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. for \$27.50.

### WHAT VARIETIES TO PLANT

**In the Extreme North**—Sanford's White Flint, Improved Yellow Flint, Pride of the North, Silver King.

**Northern District**—Pride of the North, Silver King, Farmers' Reliance, Iowa Gold Mine, and the Flint varieties.

**North Central District**—Iowa Gold Mine, Iowa Silver Mine, Silver King, Farmers' Reliance, and the Flint varieties.

**Central District**—Profit, Iowa Silver Mine, Iowa Gold Mine, Farmers' Reliance, Prosperity, Reid's Yellow Dent, Lenocho's Homestead.

**Southern District**—All of our large varieties will do well in this section; also any early varieties for special uses.

### WRITE FOR SAMPLES

There is no hard and fast rule that will govern the planting of any variety in a certain locality. Last season was so far from normal that even the earliest varieties did not make a crop in northern Iowa and none of the varieties planted in their usual location succeeded very well. There were exceptional fields planted extremely early, situated on favored plots, that did fairly well, but conditions were so unusual that results of last year are not to be taken as the real test of any variety. Our selections and recommendations above are based upon normal weather and soil conditions, and the varieties named will give splendid returns in ordinary years. In good seasons like the summer of 1914, most of the large varieties might be moved north fifty miles with good results, but we are content to make our recommendations as stated, believing it better to be conservative rather than lead our friends to plant large late corn in unsuited sections. The extreme north district named above is intended to include South Dakota, Minnesota, Wisconsin and parts of the corn belt north of our Iowa line. The other districts are in accord with the division of Iowa as accepted by the Iowa Corn Growers' Association.

Last spring I got some Reid's Yellow Dent seed corn and will say it is as fine as any corn I ever saw. I don't think it could be beat in the state.—A. A. Westbrook, Ira, Iowa.

**WE ARE HEADQUARTERS FOR SEED CORN. IT IS OUR SPECIALTY AND WE DEVOTE GREATEST CARE TO ITS PRODUCTION.**



# IOWA SILVER KING

A SUPERIOR NINETY DAY VARIETY SUITABLE FOR PLANTING IN NORTHERN IOWA AND EQUAL LATITUDES

OFFERED ALSO BY VARIOUS HOUSES AS "WISCONSIN NO. 7," "WISCONSIN WHITE DENT," ETC.

This is an extra early white variety, and originated with Mr. A. L. Goddard, of Kossuth County (near Minnesota line), who also originated Pride of the North more than twenty-five years ago. It has not been grown very much south of the north Iowa district, but it will make a good crop anywhere. Because of its extreme earliness it will be safe to plant in the North, where the larger later sorts will not mature sufficiently, and in the southern and central corn belt will be ready for feeding thirty days ahead of Reid's Dent or the large late varieties. Very popular wherever known.

Mr. Goddard gave it the name "Silver King," which is the proper designation. It has been tested and bred for a number of years by the Wisconsin Agricultural Experiment Station at Madison, who disseminated it under the name "Wisconsin No. 7," and from this it became known among some of the seed trade as "Wisconsin White Dent." It is, however, an Iowa corn, and we are offering it under the Iowa name, as our stock is produced in this state. By reason of the publicity given it by the Wisconsin station it has become the most popular variety in that state, and under the Wisconsin title has been disseminated in Minnesota and other portions of the northern corn belt.

## HAS YIELDED 93 BUSHELS PER ACRE

with ordinary methods of cultivation. The record yield is 137 bushels per acre, produced in Wisconsin in 1913, in the acre contest for that year. In the same state, in the boys' acre contest, the record was 133 bushels per acre. Of course these were forced yields but we believe on strong land with heavy planting of three stalks to the hill, a hundred bushels per acre might be harvested. There is no question about its yielding qualities. Many prefer a yellow corn, but to those who have no prejudice against color the Silver King is recommended as a profitable variety. In many markets white corn commands a premium, and we do not think it ever sells at a discount. After the disastrous year of 1915, we believe there will be a general demand for early corn, as the large, late kinds were almost a total failure in the north half of Iowa last year. For this demand we offer the Silver King as the white variety that will meet this need.

## IT IS A DISTINCT TYPE

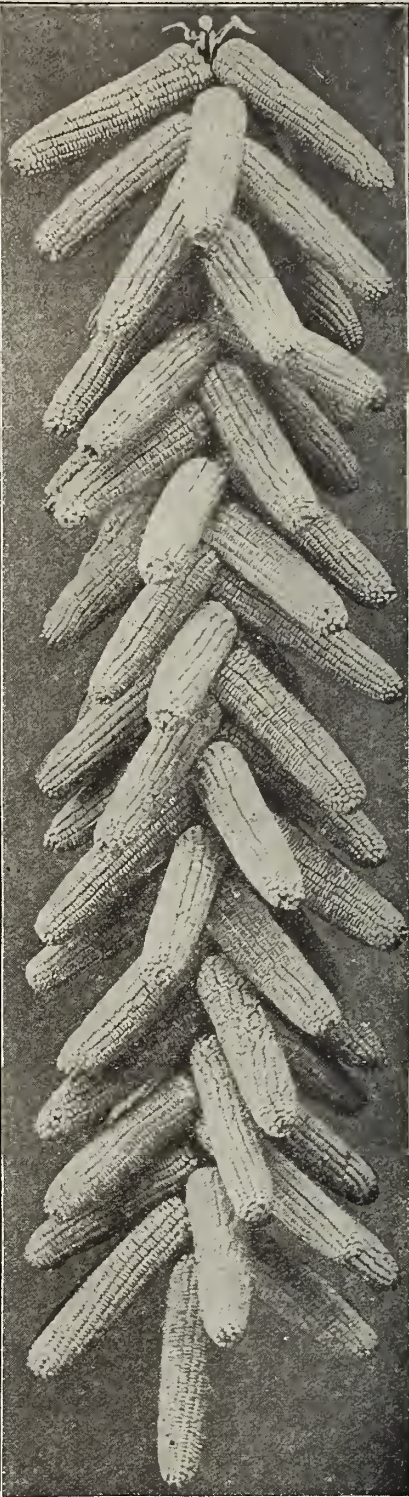
although it might well be called a small eared Iowa Silver Mine. In shape of ear and general appearance it resembles that well known variety. It is, however, a little smoother, and the grain is a trifle harder. This is no doubt due to its being acclimated to the North where the seasons are short. It grows very uniform and the ears show every evidence of careful breeding and thorough fixing of the type. With good seed, carefully produced, such as we offer you a crop may be produced which will prove most profitable, and bring the topmost price in market. The stalk is strong and vigorous, grows moderately tall, and the ears are carried at just the proper height for easy harvesting, 8 to 9 inches long, very symmetrical and handsome, in fact a splendid sort in every characteristic of good corn.

## OUR STOCK IS NORTHERN GROWN

The stock we are offering comes from northwestern Iowa, a hundred miles north of Des Moines, so that customers in any part of the corn belt can order from us with assurance that the corn is suited for their planting. Most of our seed corn is grown at Altoona where conditions are peculiarly well adapted for the production of corn that will bear transplanting to any part of the corn belt. We sell the Altoona stocks everywhere with general satisfaction, but we went north for our stock of Silver King in deference to the wishes of our northern patrons, and for the further fact that Silver King is best known and in most demand in that section.

## PRICE IS LOW FOR QUALITY

Although there is a great shortage of good seed corn this year, we will not advance our prices over ordinary seasons and will sell you good seed at fair values. The principal expense in seed corn is labor, and while this cost varies somewhat from year to year, we can keep it at reasonable figures, and this will be done and our customers are to have the benefit of the saving.



**PRICES:** Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, by mail or express, prepaid. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. for \$27.50.

THE SILVER KING CORN WILL MAKE GOOD ANYWHERE IN THE CORN BELT. WE RECOMMEND IT BOTH NORTH AND SOUTH.



THE EARLIEST LARGE CORN

**FARMERS' RELIANCE**

THE LARGEST EARLY CORN

RECOMMENDED BY US AS A

**FINE VARIETY FOR NORTHERN PLANTERS**

A grand variety of field corn, introduced by the Iowa Seed Company, and it is by far the earliest large dent corn in existence, and also the largest eared early corn. It is the result of a scientific hybridization made twenty years ago by a practical seed corn grower, and followed by careful selection each year since to obtain the earliest large-eared corn in the world. It originated in central Iowa, about forty miles east of Des Moines, but has been widely disseminated, and now grows successfully in northern Iowa, Minnesota, South Dakota and Wisconsin. Of very strong, vigorous character, growing more rapidly than any other variety from the day it is planted. Its quick growth really surprises one with the speed with which it hurries on to make ears. The stalks usually have from nine to eleven blades while most ordinary corn has thirteen blades. Leaves quite broad, of dark emerald green, healthy color. Has been planted as late as June 26th and yielded a splendid crop. We claim it will mature in ninety days. Ears are larger, smoother, and easier to handle than Pride of the North, and will yield one-third more under the same conditions. It holds the same place among yellow corn that Silver King does among the white varieties, and we recommend it without reserve. An average bushel of 70 lbs. will make 60 lbs. of shelled corn. It has for years been selected from the stalks which set the ears three feet or less from the ground and this has a tendency to make it earlier. Fully 40 per cent of stalks produce two good ears. It is the "farmers' reliance" every year. The originator has taken the first prize for early yellow corn at every fair at which it has been exhibited.

**PRICES:** Per lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp., not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85, 10 bu. for \$27.50.

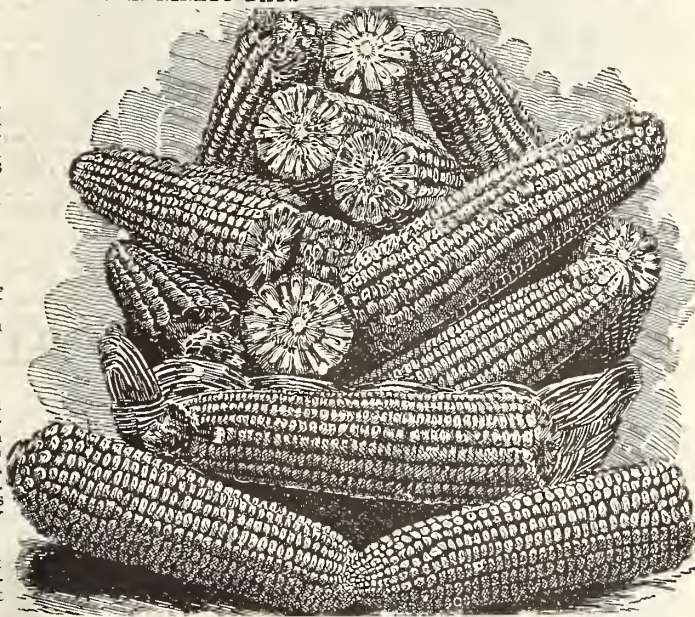
I was well satisfied with the Farmers' Reliance Corn which I purchased of you, it yielding 47 1/4 bushels per acre at an altitude of 4,700 feet.—C. F. Fitch, Greeley, Colorado.

I have seven acres of Farmers' Reliance that will make 80 or 90 bushels per acre. It is by far the best corn I know of around here. It was planted June 14th.—Geo. W. Brown, Ross County, Ohio.

**PRIDE OF THE NORTH****THE EARLIEST VARIETY OF YELLOW DENT CORN. OF EXTRA VALUE FOR FEEDING.****MATURES SOUND AND DRY IN NINETY DAYS**

This variety originated with A. L. Goddard, of Kosuth County, Iowa, near Minnesota line, over twenty-five years ago, and sprang at once into prominence as the earliest of all yellow dent corns. The ears are 7 to 8 inches long, with small cob and kernel; 70 lbs. of ears will make 62 lbs. shelled corn; color bright orange, very uniform. Will ripen in 90 days and matures in this latitude when planted in June. Good soil is capable of producing four or five good stalks to the hill and many of the stalks have two ears each. Same results can be better accomplished by growing closer together or planting in drills, as it does not require as much room as the large growing sorts. This will enable one to get as large a crop as with a long eared variety, and much more fodder. There is no corn, not excepting our famous Iowa Gold Mine, that is better for the feeder than Pride of the North. The cob is extremely small, and will not weigh more than 7 or 8 lbs. in a bushel of ears. The grain is very long and sets closely on the cob. It is extremely rich, and goes farther in flesh production than ordinary sorts. A splendid sort to grow for "hogging down." By using in this method you do not have the labor of husking, you can plant it thicker than for ordinary cultivation, and get an immense crop of small ears of splendid quality that will put flesh on the stock in record time. It is the dependence of the man in a pinch. If for any reason you can not plant at proper time, Pride of the North will make a crop in 30 days' less time than the large eared sorts. In some years it has made a crop planted after July 4th. It is the variety that insures a corn crop against floods or storms or unfavorable conditions in May or early June.

**PRICES:** Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, postpaid. By mail or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. for \$27.50.

**TREE AND HEDGE SEEDS**

By mail, postpaid.					Variety.				
Variety.	Pkt.	Oz.	1/4-lb.	Lb.	Variety.	Pkt.	Oz.	1/4-lb.	Lb.
Apple .....	.05	.15	.40	\$1.25	Locust, Black .....	.05	.10	.25	.75
Ash White .....	.05	.10	.30	1.00	Locust, Honey .....	.05	.10	.25	.75
Bcx Elder .....	.05	.10	.30	1.00	Mulberry, Russian .....	.10	.30	1.00	3.50
Catalpa, Hardy .....	.05	.25	.75	2.25	Osage Orange .....	.05	.10	.30	1.00
					Tree of Heaven .....	.05	.10	.25	.75

ON THIS PAGE ARE TWO EXTRA EARLY SORTS SPECIALLY VALUABLE TO NORTHERN PLANTERS OR FOR EARLY FEED



## 80 DAY FLINT CORNS

For Early Feed. Ready For Use a Month Earlier Than Ordinary Varieties

### SANFORD'S EARLY WHITE FLINT

This standard variety is considered the best flint corn on the market. The ears are of unusual length, 12 to 15 inches, and handsome shape, flinty white color. Plants of sturdy, vigorous growth; leaves are very broad and succulent, and it is therefore of great value for fodder and ensilage, as well as for a grain crop. Stalks usually bear two or three long ears. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, pk. 65c, bu. \$2.50, 2 bu. or more at \$2.40, 10 bu. for \$22.50.

### IMPROVED YELLOW FLINT

An eight-rowed yellow flint variety with ears from 10 to 15 inches long, 1½ to 2½ inches in diameter, and well filled out to the extreme end of the cob. The cob is small and the kernel large and broad; ripens in 75 to 85 days. Said to produce 200 bushels of ears to the acre in Massachusetts. Has given excellent results in Minnesota and other northern states. Excellent for ensilage and is often used here for re-planting. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, pk. 65c, bu. \$2.50, 2 bu. or more at \$2.40 per bushel, 10 bushels for \$22.50.

EARS 12 TO 15 INCHES LONG.



SANFORD'S WHITE FLINT CORN

## EVERGREEN SWEET FODDER CORN

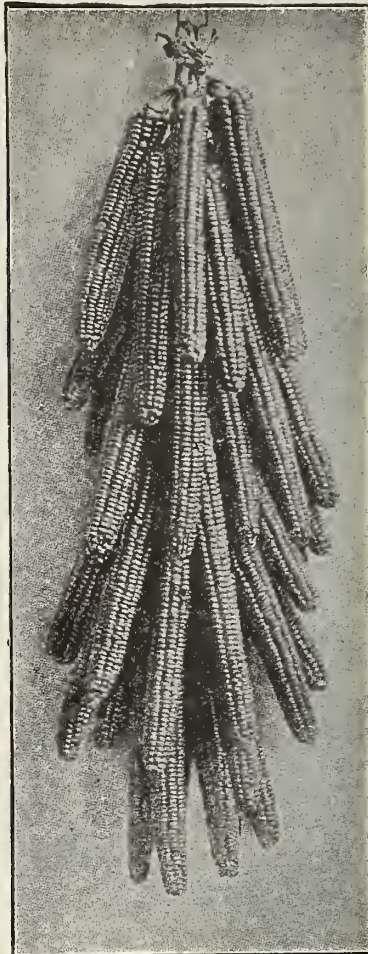
SUPERIOR TO FIELD CORN IN FEEDING VALUE

The past few years seed sweet corn has been so scarce and high in price that we did not urge our customers to plant it, but last year we grew a splendid crop, both in the quality and quantity, and are therefore enabled to offer it at a low price. We consider it one of the most valuable fodder plants in existence, and stock farmers should devote some land to it. The stalks are sweet, juicy, rich, tender, and very nutritious. On a strong soil it will grow 10 to 12 feet high and produce almost an incredible quantity of fodder, which when well cured is equal to hay, besides being cheaper. It is claimed by dairy farmers this fodder will increase the milk and cream production greatly and keep the animals in the best of condition. It has the further merit of being so sweet and palatable that cattle eat every part of the stalk and leaves. As a green fodder for cutting in the summer, one acre is worth eight acres of ordinary pasture. Of high value also for hogs, and an excellent plant to plow under for soiling. Sow thick in drills, or broadcast at rate of 2 bushels per acre. By freight or express, not prepaid, pk. 75c, bu. (50 lbs.) \$2.50, 2 bushels or more at \$2.35 per bushel.



EVERGREEN FODDER CORN

CUT EVERGREEN SWEET FODDER CORN IN ROASTING EAR STAGE FOR PIGS AND MILK COWS.



IMPROVED YELLOW FLINT

### EXPERIMENT CORN COLLECTION

For the benefit of those of our customers who would like to compare our varieties of corn in a practical way, we offer a collection composed of 1 lb. each of the following eight varieties: Prosperity, Iowa Silver Mine, Iowa Gold Mine, Profit, Silver King, Reid's Yellow Dent, Lenoche's Homestead, Farmers' Reliance. By express, not prepaid, for \$1.00; or, if you want them prepaid, send additional postage as per table, p. 2.

## SOME UNIQUE AND NOVEL VARIETIES OF CORN

### NEW CENTURY WONDER

A wonderful variety from South America, different in many respects from other sorts. Instead of growing like ordinary corn, one stalk to each kernel planted, it stools like winter wheat, producing 10 to 20 stalks from each seed. Often 3 to 7 ears to stalk, being 8 to 10 in. long, and of most clean, snow-white color. Of excellent quality for the table like sweet corn; when dry and ground makes the cleanest, finest, whitest meal. An improvement on Brazilian flour corn, being acclimated by growing in the north. Plant early as it requires the whole season to mature in this latitude. Pkt. 10c, ¼ lb. 15c, lb. 40c, 3 lbs. (will plant one acre) \$1.00, postpaid. By frt. or exp., not prepaid, ½ pk. 65c, pk. \$1.00.

### COBLESS CORN

A unique curiosity. The grain grows at the top of the stalk, where the ordinary corn produces the tassel. Each grain is enclosed in a husk in the manner of primitive corn, while the head resembles sorghum or Kaffir, except that the grain itself is true corn, hard and flinty, about the size of grains of ordinary flint varieties. Sold only in pkts. at 10c.

### PRIMITIVE OR HUSK CORN

It is from this wild variety that all of our civilized sorts have sprung. The ears are of fair size and each individual kernel or grain is covered with a husk and all is enclosed in an outer husk like common corn. In some of the wild and uncultivated parts of Mexico, the primitive or natural corn can still be found growing wild. It is quite curious and valuable for exhibition purposes and attracts great attention wherever seen. Pkt. 10c. Specimen ear 40c, postpaid.



PRIMITIVE OR HUSK CORN

BY ALL MEANS INCLUDE THESE NOVEL CORNS IN YOUR ORDER AND HAVE SOMETHING FOR THE FAIRS AND CORN SHOWS.





## SELECT GRADE SEED WHEAT

You should grow more wheat. This year's crop in the United States was the largest ever produced, but prices are still favorable. Much of the wheat grown this year was damaged by wet weather while in the shock. We have some excellent stocks that are superior in quality, and you can afford to send us your orders. There is no question but that wheat is profitable if the farmer can realize anything like \$1.00 per bushel. Careful comparison, and careful experiment for several years have proven to our satisfaction that the varieties which we are offering are the best and most suitable for growth throughout the grain belt. We believe that our stocks will produce better crops than will imported seed, and we are offering them in full confidence that they will give satisfaction.

### MARQUIS

**Ten Days Earlier than Blue Stem or Red Fife and Produces Five to Ten More Bushels per Acre**

This is the wheat that won the \$1,000 prize at the New York Agricultural Exhibition against all exhibitors, representing every wheat growing section of the western hemisphere. Superior to any known variety in milling and baking qualities. Has recorded yields of 50 bushels per acre. It originated at the experiment station at Ottawa, Canada, and introduced to Canadian planters in 1905. It created a furore and is now the most popular variety in that country. It is a favorite in Minnesota and the Dakotas and after testing it two years on our own farms we recommend it as the best beardless spring wheat for this latitude. Grows stiff, strong straw of medium height, has round, hard, dark red kernels and matures two weeks earlier than the old standard blue stem types. We have both Iowa and Minnesota grown Marquis wheat and customers will please state their preference. Per lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp. not prepaid, pk. 65c, bu. \$2.00, 2 bu. or more at \$1.90 bu., 10 bu. for \$18.50.

### MACARONI OR DURUM WHEAT

(Kubanka.)—Yields 80 per cent greater than other varieties of wheat. One farmer reported 49 bushels per acre. It does especially well in the semi-arid plains. It seems to be always a sure crop and will mature in shorter season than any other wheat. Yields profitable crops in Kansas, Iowa, Oklahoma

and Texas. Does well on good soil, but yield is larger and quality better when sown in poor land. Grains hard and glossy, often translucent and large. Heads compactly formed and bearded. Hardy and not attacked by smut or rust. Sow early in spring about 1½ bu. per acre. Lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp. not prepaid, pk. 65c, bu. \$1.85, 2 bu. or more at \$1.75 bu., 10 bu. for \$16.

### WINTER WHEAT

For years we have made a specialty of furnishing farmers with choicest seed of winter varieties. We have urged upon them the value of this crop from a money standpoint with the result that the production of winter wheat has steadily grown in volume and our friends have made a profit from this crop. We issue a price list of winter wheat about Aug. 1st.

**RED CROSS.**—The best beardless winter wheat for the corn belt. Is immensely popular with our patrons because of hardness, heavy yields and freedom from harsh beards, making it much pleasanter to handle than the Turkey Red types. Lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp. not prepaid, pk. 50c, bu. \$1.75, 2 bu. or more at \$1.65 per bu., 10 bu. \$16.

**TURKISH RED.**—The great standard winter variety so generally recommended by all authorities. Lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp. not prepaid, pk. 50c, bu. \$1.50, 2 bu. or more at \$1.45 per bu., 10 bu. \$14.

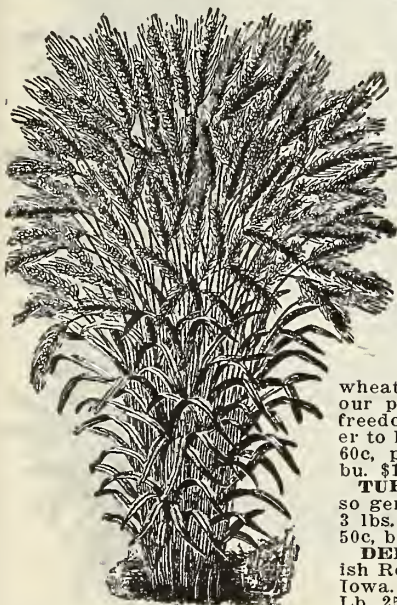
**DEFIANCE.**—Our greatly improved strain of Turkish Red which has a record of over 59 bu. per acre in Iowa. Has never failed to produce a profitable crop. Lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp. not prepaid, pk. 60c, bu. \$1.75, 2 bu. or more \$1.65 per bu.

### EARLY JAVA

The early bearded sort that is so prolific and gives best returns in the corn belt. This is a bearded variety which for five or six years past has given far better satisfaction in central Iowa than any other variety and wherever introduced it is driving all other sorts out. The farmers are delighted with it. It is a new variety of spring wheat, about ten days earlier than the Velvet Chaff or other standard sorts, and thus escapes the extreme hot weather so injurious to small grain. It is usually ready for harvest as early as winter wheat, and therefore desirable to sow on land where winter wheat has partially failed. A good crop can this way be secured from fields which would otherwise be unprofitable and the wheat would be all right for milling purposes, but would not do for seed. Yields in this vicinity ordinarily about 25 bu. per acre. Per lb. 25c, 3 lbs. 60c, postpaid. By frt. or express, not prepaid, pk. 65c, bu. \$1.85, 2 bu. or more at \$1.75 per bu., 10 bu. \$16.



EARLY JAVA WHEAT



MACARONI WHEAT



ONE OF OUR CUSTOMERS GOT \$35.00 PER ACRE FROM THIRTY ACRES OF WHEAT. IT WAS SURELY VERY PROFITABLE.





**Send for Free Samples  
for Comparison**

If you want a large quantity of seed oats of any variety we handle, write us for special prices.

## IOWA GROWN SEED OATS

**BUY THE IOWA GROWN SEED**

Comparative tests for a number of years have led us to the conclusion that Iowa grown seed oats are the best to plant in the corn belt. Iowa grows more oats than any part of this continent. We ought to grow more than we do. This is easy to do if we use selected seed from improved varieties, thoroughly acclimated. The problem in oats raising is to get a variety that will mature before the adverse conditions obtain, and one that will produce good grain in profitable amount. To obtain this it is necessary to have seed that has been acclimated.

### WHITE KHERSON (Iowa 103)

**A NEW PRODUCTION FROM AMES COLLEGE**

Bred from the Yellow Kherson by Prof. L. C. Burnett, agronomist at the Iowa Agricultural College, under the designation "Iowa 103," and entrusted to us for introduction to the farmers. It has all the good qualities of the old Kherson, with the additional value of better color. Grain is not so large as Silver Mine, but plump and heavy, with thin hull. It matures very early and does not suffer from blight or rust. The straw is strong, medium height, and stands up extra well on heavy soil. Stools well and only requires  $2\frac{1}{2}$  bushels per acre for full seeding. On our farms the past two seasons it has surpassed all other varieties, and we offer it as the best oats for Iowa that has yet been produced. Per lb. 20c, 3 lbs. 50c, postpaid. By freight or express, not prepaid, pk. 40c, bu. (32 lbs.) \$1.20, 3 bu. or more at \$1.15 per bu., 10 bu. for \$11.00, 25 bu. for \$25.00.

Below is a clipping from the daily press about this variety:

Ames, Ia., Oct. 16.—(Special).—A strain of oats, "Iowa 103," developed under Iowa conditions by the Iowa agricultural experiment station, proved itself worthy this last year in a number of sections of the state under practical farm conditions. At Oakville, Louisa county, one large field seeded with this strain outyielded the best local varieties by 20 bushels per acre. Other fields in the vicinity did nearly as well. In other counties "Iowa 103" also showed heavier yielding qualities, though not so much better than local sorts as in Louisa county. These facts are contained in reports to Jno. Buchanan, of the experiment station, secretary of the Iowa Agricultural Experiment Association, which is distributing the new varieties of seed developed at Ames. The Oakville test was conducted by F. E. Jamison, who got his first shipment of seed in 1913. Then he grew an acre of "Iowa 103" which produced 77 bu. of choice seed. He planted the entire 77 bu. last spring on 26½ acres, from which he harvested this fall 1,800 bushels. "My field yielded 82 bushels per acre, by weight," says Mr. Jamison, in his report. "That is 20 bushels better than the next best field of oats in this entire section. Our neighborhood has reason to thank the co-operative association and the plant breeders at the experiment station for 'Iowa 103'."

### EARLY CHAMPION

**THE EARLIEST WHITE VARIETY**

This variety has comparatively short straw, matures a week to ten days earlier than large kinds, escaping the liability to rust or blight during the time when the later sorts are under unfavorable weather conditions. Its quick maturity is a valuable attribute. It will not lodge on rich land. Henry Wallace, editor of Wallaces' Farmer, has stated: "I would rather risk growing grass seed with them than with any variety I know of." Pk. 40c, bu. \$1.15, 3 bu. or more at \$1.00 per bu., 10 bu. \$9.00, 25 bu. \$21.25.

### REGENERATED SWEDISH SELECT

**MOST WIDELY ADVERTISED VARIETY**

For reasons set out at introduction to this page, we are confining our offerings of seed oats this year to home-grown stocks. We know that our oats are fully acclimated and have been grown successfully under adverse conditions, that they will give better results than the greatly advertised, high-priced seed of this variety. Pk. 45c, bu. \$1.15, 3 bu. or more \$1.00 per bu., 10 bu. \$9, 25 bu. \$21.25.

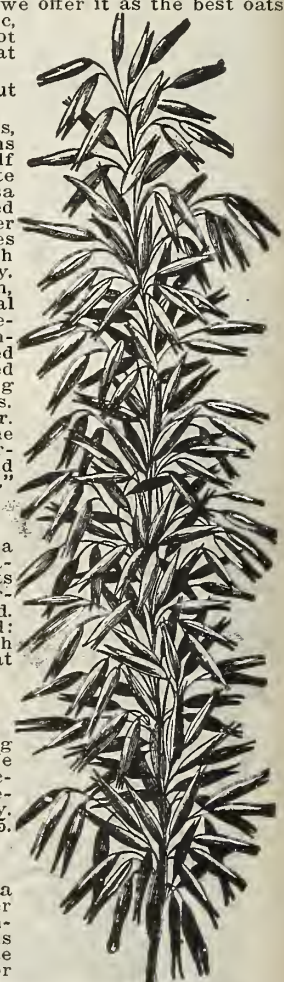
### SILVER MINE

**THE POPULAR MAIN CROP VARIETY**

Standard for main crop in Iowa and from comparative tests for a period of years has proven its ability to produce good crops under ordinary conditions, year after year. Reputation of yielding immense crops of 100 to 160 bu. per acre in favorable years. Grain is usually large, plump and heavy with a reasonably thin hull. Quite hardy, vigorous, stands well and shows little tendency to rust or lodge unless soil is rich. Has splendid record in comparative tests at Iowa Agricultural College. Pk. 40c, bu. \$1.15, 3 bu. or more \$1.00 per bu., 10 bu. for \$9.00, 25 bu. for \$21.25.



SWEDISH SELECT



WHITE KHERSON

OUR CUSTOMERS ARE AT NO EXTRA EXPENSE FOR BAGS TO HOLD SEED GRAIN AS THEY ARE FURNISHED FREE OF COST.



## SPELT, OR EMMER

This new grain was first introduced in to this country by our house about ten years ago, has proven of great value, and is now listed by almost all of the leading seedsmen. It has become a staple crop in all sections of the West and Northwest and its position in the list of grains is thoroughly established. It is grown and handled in the same manner as barley, though many feeders do not thresh it but feed direct from the stack or shock. It is really better to thresh it as the process breaks up the beards and straw so that the animals eat it more readily. It is a splendid feeding grain, in our opinion second only to corn, and in dry or cold sections where corn will not mature Spelt will be the very best live stock feed that can be produced. It is in the cold and arid regions that it thrives best, and will yield wonderful crops under adverse conditions. Records of 75 to 100 bushels of grain and 3 to 5 tons of straw are reported from Kansas, Nebraska and the Dakotas. It can be used for pasturage and hay after the manner of rye, and if sown with field peas the hay will be strictly first quality. Its value lies in its hardness, great yields, and feeding value, and it can be grown anywhere in the corn belt with profit. Use 50 to 75 lbs. of seed per acre. Per lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, pk. 50c, bu. (40 lbs.) \$1.50, 2 bu. or more at \$1.40 per bu., 10 bu. or more at \$1.35 per bu.



## NOVELTY FARM COLLECTION

Many of the items in this collection are not strictly novelties but few of them are generally known to our customers. For a very small price we offer an opportunity to study these plants and determine for yourself their value in agriculture. The collection consists of one good size pkt. of Primitive or Husk Corn, New Century Wonder Corn, Sudan Grass, Feterita, Teosinte, Sand Vetch, Australian Salt Bush, Penicillaria, Milo Maize, Thousand Headed Kale, New Era Cow Peas and Soja Beans—13 kinds in all—postpaid for 60c.



## SEED BARLEY

**MANDSCHEURI.**—Improved strain of standard six-row bearded barley. The standard market variety by which all are graded and therefore the most popular bearded sort. It is an early variety, very strong, stiff straw, stands up and stools well. It bears large, well-filled heads of plump-berried grain. Per lb. 25c, 3 lbs. 60c, postpaid. By freight, pk. 50c, bu. (48 lbs.) \$1.40, 2 bu. or more at \$1.30 per bu., 10 bu. or more at \$1.20 per bushel.

**ODERBRUCKER.**—First introduced into the United States from the Agricultural Experiment Station at Guelph, Ontario, Canada. Bred and disseminated at the Wisconsin Agricultural College by Prof. R. A. Moore, who claims it is the greatest barley in this country for feeding or malting purposes. It and Mandscheuri have held the record for many years for the heaviest yielding sorts. It is bearded, and in manner of growth similar to the Mandscheuri, but the straw is somewhat stronger and stiffer, and will stand up on the richest ground. Will not rust and is free from smut. Per lb. 25c, 3 lbs. 60c, postpaid. By freight or exp., not prepaid, pk. 50c, bu. \$1.55, 2 bu. or more at \$1.45, 10 bu. or more at \$1.35.

**SUCCESS BEARDLESS.**—A very valuable variety. The earliest barley known. The straw is about the height of common barley and will stand up on any land; on good land will produce 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards which are so disagreeable in threshing, although it is a profitable crop. This is beardless and as easy to grow and handle as oats. It has hulls like the Mansury or any other old variety, and the quality is excellent, both for malting and for feeding hogs. Per lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp., pk. 65c, bu. (48 lbs.) \$2.00, 2 bu. or more at \$1.90 per bu., 10 bu. or more at \$1.80.

## SEED RYE

**MAMMOTH SPRING RYE.**—This is quite different from the winter rye and is highly valued wherever known. It is not only more productive but the grain is of finer quality and it can be successfully grown in any latitude. The straw is of special value as it stands six or eight feet high, being better than that of winter rye and producing nearly four times as much straw as oats. Produces 30 to 40 bushels of grain to the acre. As it does not stool like winter rye, not less than two bushels to the acre should be sown. There is always a demand for first quality rye straw and the price is nearly always remunerative. The double crop of straw and grain make it one of the most profitable of farm crops. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight, pk. 50c, bu. (56 lbs.) \$1.70, 2 bu. or more at \$1.60 per bu., 10 bu. or more at \$1.50 per bu.

**MONSTER WINTER.**—We consider Winter Rye one of the most important of all farm crops. In the first place, it is a sure crop, failures being almost unknown. Every farmer should have at least a few acres of it. It is usually sown in the fall, and as it grows very vigorously, will furnish pasture till late in the fall and also early in the spring before other grasses have made a growth. So it is of great value to dairy farmers. If sown early in the spring it makes an early and abundant pasture, but makes no grain crop. Our Monster Rye is of extra quality. We are sure it will please you, no matter whether you want it for pasture or grain crop. As grown for the grain alone it will yield great returns and make money for you. As much as 60 bushels per acre have been produced. Pk. 50c, bu. \$1.40, 2 bu. or more at \$1.30 per bu. (56 lbs.), 10 bu. or more \$1.25 per bu.







## BUCKWHEAT

Buckwheat is a valuable crop for those parts of the farm which always seem to be left unplanted at the close of the season. Generally sown in July and will fill up the vacant plots at a time when all other planting is past. Can be sown after crop of winter wheat or rye and make a second crop. Use about one-half bushel seed per acre. Prices subject to change.

**JAPANESE.**—A week earlier than Silver Hull and yields more. Flour is equal to any other buckwheat, while it is more productive than any other, and succeeds well far north. The kernels are quite large, but the straw is heavier and it branches more; need not be sown as thickly as other kinds. Per lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, pk. 50c, bu. (48 lbs.) \$1.60, 2 bu. at \$1.50 per bu., 10 bu. for \$14.00.

**SILVER HULL.**—Very good, popular variety. Grain is light gray color, rounder than the common variety, has a thinner husk, earlier and yields more. It is preferred by the mills grinding buckwheat flour as it makes a smaller proportion of hull to flour than any other sort. Lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp., not prepaid, pk. 55c, bu. (48 lbs.) \$1.75, 2 bu. or more at \$1.65, 10 bu. for \$15.00.

## VEGETABLE FARM CROPS

Many of our best and most profitable farm crops are listed in this catalogue among the vegetables, and we have thought best to call our farmer friends' attention to them at this point, for fear they might be overlooked or not appreciated because they did not appear in the Farm Department.

**Mangel Beets** (see p. 7).—Are of special value to the stock feeder and produce enormous crops.

**Carrots** (see p. 10).—Are another root crop producing heavy crops and recommended to horsemen and dairy farmers.

**Pumpkins** (see p. 25).—Two crops on one field if you plant them in the corn. Seems like there are never enough in the markets.

**Onions** (see pp. 20, 21).—Always salable at profitable prices, for they can be sent to market without loss or shrinkage.

**Citron Melons** (see p. 18).—Grown in dry sections, in preference to pumpkins for stock feed; are used in same way.

**Pop Corn** (see p. 23).—A field crop grown in hundreds of acres in northwest Iowa. A great market is now established for this product by the breakfast food manufacturers.

**Parsnips** (see p. 24).—A good farm crop, since they can be marketed either fall or spring and produce wonderfully.

**Squash** (see p. 29).—A profitable crop for the farmer near a market. Demand always good for the large late varieties.

**Turnips and Ruta Bagas** (see p. 32).—Recognized as the field crop of all others to occupy the waste spots and produce feed after the planting season for other crops is past.

### SEED FLAX

It will pay you to sow nice, pure, high-grade flax seed. For several years the available supply has not equaled the demand and prices have ruled very high.

Our seed is thoroughly re-cleaned, free from mustard or any other weed seed and is as good as can be purchased anywhere. Do not buy flax seed on open market. It is generally full of weed seed. One of the most profitable of crops, especially on new land. Price subject to change. Per lb. 20c, 3 lbs. 50c, postpaid. By frt. or exp., not prepaid, pk. \$1.00, bu. \$2.75, 2 bu. or more at \$2.65, 10 bu. or more at \$2.50 per bu.



FLAX



EVERGREEN  
BROOMCORN



### SUNFLOWER

A small patch of cultivated sunflowers will produce a great quantity of the very best poultry feed for winter. Drill in rows, cut with a corn harvester, dry thoroughly and let the fowls do the threshing. If you can't spare land for cultivating plant them in waste corners. We sell sunflowers for feeding purposes, and prices will be found with bird supplies on page 134; seed so offered is not for germination.

**MAMMOTH RUSSIAN.**—Extremely large sunflower. Large pkt. 5c, lb. 25c, 3 lbs. 65c, postpaid. By frt. or exp., not prepaid, 10 lbs. \$1.25, bu. (25 lbs.) \$2.50.

**WHITE BEAUTY.**—Equal in size to Mammoth Russian. Pkt. 5c, lb. 35c, 3 lbs. \$1.00, postpaid. By frt. or exp., not prepaid, 10 lbs. \$1.25, bu. (25 lbs.) \$2.50.

### BROOM CORN

**CALIFORNIA GOLDEN.**—Carefully selected and improved so that the brush is straight and long. Of fine quality, light green color, turning to light yellow when allowed to become too ripe. Per lb. 25c, 3 lbs. 65c, postpaid. By freight or express, not prepaid, pk. 85c, bu. (50 lbs.) \$2.75.

**EVERGREEN.**—Largely grown in the western states. The brush is noted for fine quality, good length, and handsome appearance. Lb. 25c, 3 lbs. 65c, postpaid. By freight or express, not prepaid, pk. 85c, bu. (50 lbs.) \$2.75.

**DWARF.**—Popular in some sections, matures late. Lb. 25c, 3 lbs. 65c, postpaid. By freight or express, not prepaid, pk. \$1.00, bu. (50 lbs.) \$3.25.

### SEEDS FOR SUMMER SOWING

A thirty-two-page booklet telling how to grow Sweet Clover, Sudan Grass, Cow Peas, Sand Vetch, Alfalfa, Amber Cane and Dwarf Essex Rape. Also chapters on Millet, Buckwheat and other seeds for summer planting. Free on request.

BUCKWHEAT WILL MAKE A CROP PLANTED AFTER JULY 15TH. GET TWO CROPS FROM YOUR GRAIN FIELDS EACH YEAR



# FORAGE AND FODDER PLANTS

Every plant that will conserve the hay raised on a farm is of material advantage to the farmer. In this department will be found a number of items which, if properly used, will solve the problem of feed for the live stock when hay and pasturage are short from any cause. Amber Cane or Kaffir Corn for fodder; Rape or Kale for pasturage; Vetch or Field Peas for hay can be used by any farmer in the corn belt with profit. All may be siloed with corn to advantage.

## EARLY AMBER CANE

Dairy farmers say that Early Amber Cane is the most valuable fodder plant in existence for their use. It is of the very best quality, being sweet, nutritious and greedily eaten by cattle, horses and hogs. Grown successfully in any part of the country, from Canada to Texas, and from the Atlantic to the Pacific. It is one of the best plants to withstand drouth and unfavorable weather and is therefore a comparatively sure crop. It is wonderfully productive, the Ames Agricultural College harvesting 29 tons per acre on August 27th from a plot seeded May 21st. It is usually put in during June, sowing 100 pounds per acre broadcast, or 60 to 75 pounds per acre is sown with a wheat drill. Cut in September or just before frost with a mower and cure like hay, or with a binder and stand the bundles up. We consider the Black or Red Seeded Amber the most desirable. If wanted for sorghum, we recommend the Kenney's, which is purer. It is difficult to secure a strictly pure lot on the general markets, but this cheaper grade is desirable for fodder purposes. Price is subject to market changes but it usually advances later in the season. Per lb. 20c; 3 lbs. 50c, postpaid. By freight or express, not prepaid, 10 lbs. 50c; 25 lbs. \$1.00; 100 lbs. \$3.00; 500 lbs. or more at \$2.75 per 100 lbs.



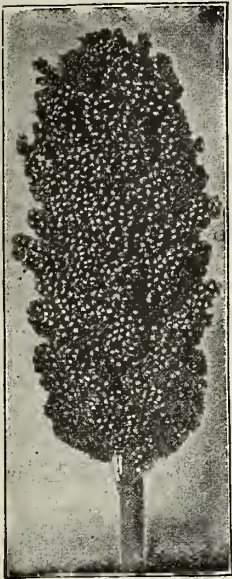
EARLY AMBER CANE

## KENNEY'S EARLY AMBER CANE

An improved variety grown on our own farms to keep it pure. The stock seed has been saved from stalks tested for sugar content. This process has been followed for a number of seasons, until we now have, without doubt, the best sorghum cane in the country, and it will make the very finest grade of beautiful amber syrup of delicious flavor. In addition to the sorghum, a crop of seed worth \$25 or \$30 can be grown at the same time. Why not supply your own table in this way, as it is as easily grown as a crop of corn. Requires only 5 lbs. of seed per acre. Per lb. 35c, 3 lbs. \$1.00, postpaid. By freight or express, not prepaid, 10 lbs. \$1.50; 25 lbs. \$3.00; 50 lbs. \$5.50; 100 lbs. \$10.00.

## FETERITA

Similar to Milo Maize and Kaffir Corn in general habit. It matures earlier than either, however, and the grains are somewhat larger and softer. It is also said to be more prolific, yielding thirty to fifty bushels of grain per acre, and suitable for feeding most any kind of live stock. It is especially recommended in the semi-arid regions of the West, or upon poor soil where ordinary Indian Corn will not produce a profitable crop. The sorghums should be planted in the North about June 1st. They do not withstand the cold and dampness of early spring like Indian Corn, but are strictly hot weather plants. In good weather, however, they grow quite rapidly, and can generally be depended upon to ripen a crop as far north as Central Iowa. Undoubtedly superior to the ordinary Kaffir and Milo generally produced. The great advantage lies in its productiveness. Pkt. 5c, lb. 20c, 3 lbs. 50c, postpaid. By freight or express, not prepaid, pk. 65c; bu. (56 lbs.) \$2.00; 2 bushels or more at \$1.85 per bushel; 10 bushels at \$1.75 per bushel.



HEAD OF FETERITA



KAFFIR CORN

## MILO MAIZE

Very similar in manner of growth to Kaffir Corn, but is preferred by many growers who claim that it produces more grain per acre and better quality of forage than any of the non-saccharine sorghums. It is grown and handled in same manner as Amber Cane or Kaffir for hay and fodder, and will make splendid ensilage if cut up with corn. Pkt. 5c; lb. 20c; 3 lbs. 50c, postpaid. By frt. or exp., not prepaid, pk. 60c; bu. (56 lbs.) \$1.85; 2 bu. or more \$1.75 per bu.; 10 bu. at \$1.60.



TEOSINTE

## SEEDS FOR SUMMER SOWING

is the title of a 32-page booklet containing articles on Sudan Grass and many other forage crops on the farm. Ask for it in your order. It is free.

## PENCILARIA

Particularly a dry, hot weather plant. An improvement of the Pencilaria Spicata (Pearl Millet), and much better adapted to the North. Seeds very small, and when it first comes up looks like grass, but very soon resembles corn, growing rapidly, and having broad, succulent leaves. It stools out wonderfully, customers reporting as high as 75 stalks grown from one seed. Sow in May or June in drills 24 to 36 inches apart, using 2 lbs. of seed per acre, or broadcast, 15 lbs. per acre. Pkt. 5c, ¼ lb. 15c, lb. 35c, 3 lbs. \$1.00, postpaid. By freight or express, not prepaid, lb. 25c, 5 lbs. \$1.00, 25 lbs. \$3.75, 100 lbs. \$13.50.

## AUSTRALIAN SALT BUSH

A valuable plant for soils containing alkali and for all semi-arid or dry regions, because it is able to furnish forage during the hot, dry summer months in western and southwestern states. It is not hardy in the North. It needs some little moisture to start it into growth but when once started it will make a strong growth during hottest and driest weather. Spreading habit, branching freely, making thick mat of stems and foliage 12 to 18 inches over entire surface of the soil. Pkt 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25, postpaid; 5 lbs. or more by express, not prepaid, at \$1.00 per lb.

## KAFFIR CORN

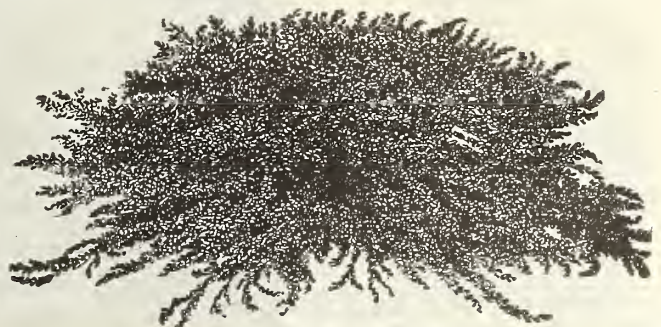
Grows five to six feet high; straight, upright growth. The stalk bears numerous wide leaves; keep brittle and juicy, making excellent fodder either green or dried. Seed crop is heavy, yielding 30 bu. per acre. There is no failure about it; can go without rain without any loss in yield. The grain is extremely valuable for feeding poultry. Cultivated same as common corn, requiring 5 lbs. of seed per acre. For fodder sow one-half to one bushel, either broadcast or in drills. Pkt. 5c; lb. 20c; 3 lbs. 50c, postpaid. By frt. or exp., not prepaid, pk. 60c; bu. (56 lbs.) \$1.85; 2 bu. or more at \$1.75 per bu.; 10 bu. at \$1.60 per bu.

## TEOSINTE

A very prolific, heavy yielding fodder plant grown largely in some parts of the country. Somewhat resembles corn but leaves are much longer and broader and stalks contain a sweet sap; 35 stalks have been grown from one seed, attaining to a height of 11 ft. and very thickly covered with leaves. Horses and cattle eat it as freely as young sugar corn. Plant as soon as ground becomes warm at usual corn planting time, in hills 3 to 4 ft. apart each way, two seeds to a hill. Has yielded 50 tons of fodder to the acre. Large pkt. 5c; oz. 10c; ¼ lb. 20c, lb. 60c, 3 lbs. (sufficient for one acre) \$1.50, postpaid.

## SUDAN GRASS

A most valuable annual grass for hay crop. See illustration and descriptive article on page 35



AUSTRALIAN SALT BUSH.

YOU CANNOT APPRECIATE THE FULL VALUE OF THESE FORAGE CROPS UNLESS YOU YOURSELF PRODUCE AND USE THEM.





## DWARF ESSEX RAPE

Most popular and profitable of all annual forage plants. Easily grown anywhere and stands unsurpassed as pasture for hogs, cattle or sheep. They eat it greedily and seem to prefer it to any other pasture during summer and till late fall or early winter. It can be sown early in the season in small grain to provide pasture after harvest, or sow on the stubble, but it is more generally sown in June, July or August with corn or potatoes or on well prepared land alone for summer and fall pasture. Extremely cheap and very prolific, having yielded 20 tons per acre. At the Iowa Agricultural Station at Ames, 60 bushels of oats and 18 tons of rape were grown on one acre, the oats and rape being sown together early in spring. The rape interfered but very slightly in oats harvest. Sow in drills, two or three pounds per acre, and cultivate. Sow broadcast four or five pounds per acre. A Nebraska farmer sowed only three pounds per acre on a four and one-half

acre field, and five weeks after sowing he turned 80 head of hogs and 40 pigs into the field and pastured there until October. It grew so rapidly that at no time could he tell where they had been 20 feet away from the gate. Our seed is best quality. Pkt. 5c, lb. 30c, 3 lbs. 80c, postpaid. By frt. or exp., not prepaid, 5 lbs. 75c, 10 lbs. \$1.25, 25 lbs. \$2.50.

## COW PEAS

There is as much difference in the grading of cow peas as in clover, and we handle only the choicest; you will not be able to get better. Circular on Cow Peas free.

**NEW ERA.**—The earliest variety and is therefore most decidedly best for growing in the North. Make splendid hay; particularly recommended for planting after grain harvest and plowing under in fall. Get the grain off the ground early and plow and plant to New Era cow peas; put the ground in fine shape for next year's crop. You will not have to haul manure on land so treated. Mature in 60 days and have done well as far north as Minnesota. Pkt. 5c, lb. 25c, 3 lbs. 65c, postpaid. By frt., pk. \$1.00, bu. \$3.50, 5 bu. or more at \$3.25 per bushel.

**WHIP-POOR-WILL.**—A highly valued plant in the South for fodder and reclaiming old and worn-out land; a leguminous plant of special merit as a fertilizer. Vines when fed green make the best fodder and are very nourishing. Whip-Poor-Will is the most popular sort and yields a good crop of both fodder and peas. Ground peas make the best cattle fattener. Pkt. 5c, lb. 25c, 3 lbs. 65c. By frt., pk. \$1.00, bu. \$3.50, 5 bu. or more at \$3.25 per bushel.

## SOJA OR SOY BEANS

**IMPROVED YELLOW.**—Splendid soiling and hay crop, preferred by many to cow peas as they stand up better and are easier to harvest. Of great value from the fact that they fertilize the soil like clover. Ground beans are equal to linseed oil meal in feeding value; as hay for silo it is equal to or better than clover. Will mature in all parts of the corn belt and in the Middle States has been grown over 4 feet high, heavily podded with seed, producing 10 tons of feed per acre. Pkt. 5c, lb. 30c, 3 lbs. 60c, postpaid. By exp. or frt., not prepaid pk. \$1.00 bu. (60 lbs.) \$3.00, 5 bu. or more at \$2.85 per bu.

## SAND OR WINTER VETCH

A forage plant of high value, highly recommended by the U. S. Dept. of Agriculture. Produces good crops on poor, sandy soil, but more vigorous on good land. Grows 4 to 5 ft. high. Recommended for seeding with fall rye for winter and spring pasturage; hardy throughout United States. Stays green all winter. Earliest for cutting and a full crop may be taken off before planting the spring crops. Sow ½ bu. per acre in the spring or fall. Pkt. 5c, lb. 35c, 3 lbs. 90c, postpaid. By frt. or exp., not prepaid, pk. \$3.25, bu. (60 lbs.) \$12.00.

Write for Red Ink Price List of Farm Seeds. Issued all the Year.



WHITE CANADA FIELD PEAS.

## THOUSAND HEADED KALE

Is now considered much superior to the rape in some sections. The seed can be sown early in April and thereafter till mid-summer. Grows 3 to 4 feet high and is so covered with small whorls of leaves that the name of Thousand Headed Kale was given to it. Sow broadcast 3 lbs. per acre, or in rows 18 inches apart, using 1 lb. per acre. Pkt. 5c, ¼ lb. 15u, lb. 50c, prepaid; 5 lbs. or more, by exp., not prepaid, 35c a lb.

## WHITE CANADA FIELD PEAS

For northern states no crop is of greater value than field peas, being very rich in the elements that improve the muscle, bone and nervous system. Sow as early as ground can be worked, using one bushel of peas and two bushels oats per acre. Cut when the oats are in milk and cure for hay. This is the quickest possible way to produce a hay crop and they are especially valuable to the farmer who has not enough meadow land. Pkt. 5c, lb. 25c, 3 lbs. 65c. By frt., pk. 60c, bu. \$3.00, 5 bu. or more at \$2.85 bu.

**DON'T CONFUSE COW PEAS AND FIELD PEAS. FIELD PEAS ARE SOWN WITH OATS IN EARLY SPRING FOR EARLY HAY. COW PEAS SOWN ALONE IN JUNE FOR FALL FEED.**



FIELD OF COW PEAS

ALL OF THE CROPS OFFERED ON THIS PAGE ARE VALUABLE TO LIVE STOCK RAISER. WE SELL CAR LOADS EACH YEAR.

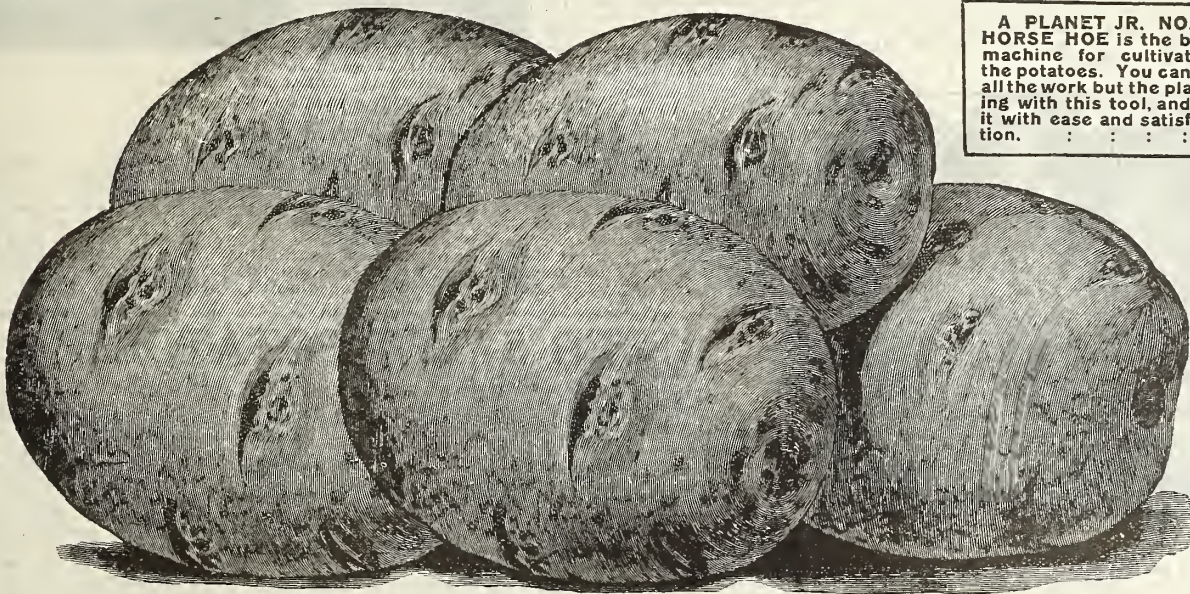




ROSE OF THE NORTH

**ROSE OF THE NORTH**

An improvement on the old Early Rose which has been grown on the virgin soil of the far north. It is very early, being only a trifle later than the Early Ohio and much larger. Is smooth and of handsome rose color. Quality superb, either baked or boiled, and yields immensely. Keeps sound well into spring. This new strain is rapidly gaining the place long held by the old Early Rose. Pk. 50c, bu. \$1.75.



FANCY NORTHERN GROWN EXTRA EARLY OHIO (Grown in Red River Valley)

**EXTRA EARLY OHIO**

Fancy Northern Grown Stock

For several years past we have been having these grown in the noted Red River Valley, about 400 miles north of Des Moines, and careful tests have proved them to be fully ten days earlier than the Iowa grown stock. This is a great advantage to the gardener, and puts this variety at the head—the most popular of all. They are all of good, average size, strictly pure, smooth and free from scab or rot, and outyield the other early sorts. It is an especial favorite with marketmen, and the most profitable potato they can grow. The sprout is very strong and the vines grow erect, making it easy to cultivate, and on account of its early maturity you can get the highest market prices. They will keep firm till late in the spring. This variety is frequently sold under the name Extra Early Six Weeks. This is our specialty in standard varieties. Also desirable for late planting as they keep well for winter and spring use. Pk. 60c, bu. \$2.00.

**EARLY OHIO**

Grown in Iowa

These were originally from our choice northern grown stock. Have been kept pure and are really good. They have been grown a year or two in this state and it is possible they are a few days later in maturing, and will not be quite so good as the fancy northern grown stock, but they are as fine as can be found in Iowa and can be grown for market with profit as the cost for seed will not be excessive. Pk. 50c, bu. \$1.75.

**FOUND PRICES.**—All varieties, except where quoted, 25c per lb., 3 lbs. 60c, postpaid. Read T. E. Terry's new book, "A B C of Potato Culture." Price 50c, postpaid.

**SEED POTATOES**

The Proof of the Potato is in the Eating

Prices on Potatoes frequently change as the market advances or declines. See Red Ink Price List accompanying this Catalogue.

It is of greatest advantage to potato growers to purchase their seed of us. By using our northern grown stock you are assured of **early maturity, increased yield and vigorous growth.** There is no longer any doubt that seed potatoes from the Red River Valley surpass those from any other section of the country with the possible exception of the state of Maine. We have for a number of years had our supplies grown in the northern part of Minnesota and Dakota and the comparative tests have each season shown an advantage for the northern seed. This is especially true of the early varieties. They mature earlier, are free from disease and produce more abundantly than home grown stocks. Prices on potatoes fluctuate greatly, but good seed potatoes are always worth more than ordinary table stock. This part of the catalogue is printed in November. We cannot fix price so far in advance of the selling season, hence we only quote in smaller quantities. If you want a large lot consult the red ink price list of farm seeds which is dated the day it is mailed with this catalogue. Should you not send your order until a change in price has occurred we will notify you upon receipt of your order and hold it until we can hear from you. If the order comes too late in the season for correspondence we will send the full value of the money received.

**A PLANET JR. NO. 8 HORSE HOE** is the best machine for cultivating the potatoes. You can do all the work but the planting with this tool, and do it with ease and satisfaction. : : :

**IRISH COBBLER**

EXTRA EARLY NORTHERN GROWN STOCK.

The Irish Cobbler has the form and color so popular in the market. Is prolific and profitable to the grower and from these causes has become a much prized variety. Matures as early as the Early Ohio, and is preferred by many because it is smooth and round in shape and of cream white color. The flesh is white and of fine quality and flavor. It is a strong, vigorous grower, with strong germ. Eyes well developed and slightly indented. Generally quoted at a premium in the summer markets because it is of economical shape, there being no waste in preparing for cooking. It is rapidly taking front rank as a market variety, and its popularity is founded on real merit. As with the Early Ohio, we recommend our northern grown stock as being more prolific and earlier in maturing. Pk. 50c, bu. \$1.75.



**SLUG SHOT IS CHEAP AND WILL KILL THE POTATO BUGS. BETTER ORDER SOME WHEN YOU ORDER YOUR POTATOES.**



# POTATOES--Continued

## RURAL NEW YORKER

### The Most Popular Main Crop Variety.

One of the largest yielding varieties in existence. Preferred by large buyers because it is large and unusually smooth, with few and shallow eyes, skin white as is also flesh, which is of good quality. Medium late and the best drouth resister. There is no other potato of more handsome appearance than the Rural New Yorker. It is very hardy and will stand the heaviest manuring without getting scabby or spotted. For this reason it is one of the most desirable varieties for farmers and potato growers near large cities to grow for main crop for market. Under ordinary circumstances they will yield from 300 to 400 bushels per acre and by heavy manuring this yield can be almost doubled. Pk. 50c, bu. \$1.60. See red ink price list for quantity prices.

## NORTHERN KING

### A Main Crop Potato of Exceptional Quality.

This potato is an improvement over the Bonanza, which we have previously offered as the potato par excellence in quality. The Northern King has the light red or pink color and the oblong shape of the Bonanza, but is much more vigorous and prolific. It will outyield either Rural New Yorker or Burbank and because of extra vigor and vitality will make a crop under most trying conditions. They are very popular with market dealers as they always give satisfaction to the purchaser. It is quality that recommends this variety, the writer preferring them to all other kinds for winter use. The tubers average larger in size than most sorts, are smooth and of good shape, and they cook whole, either baked or boiled, without hard centers or becoming "soggy." For the family who wish to grow their own potatoes for the winter supply we believe the Northern King will prove the best variety to plant. Pk. 50c, bu. \$1.60. See red ink price list for quantity prices.



NORTHERN KING

**HYBRIDIZED POTATO SEED.**—Potato seed from the flower boll (the true seed). It is from such seed that the choice new varieties of potatoes are originated. The result is interesting and often very profitable, and you are just as apt to obtain a choice new variety as an experienced potato specialist. Pkt. 10c, 3 for 25c.

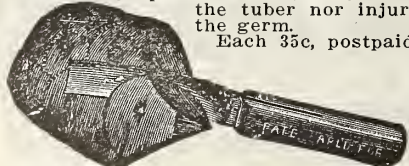
I received sweet potato plants in very good condition. I did not believe you could send plants to Texas so fresh and nice.—Chas. Schubert, Lexington, Tex.

I have received the sweet potato plants. They were so nice and green and we were very much pleased.—Mrs. A. Peterson, Denison, Iowa.

The potatoes you shipped me are the nicest I have ever seen in size, smoothness and purity.—Geo. M. Graft, Orleans, Illinois.

## CONCAVED AND CURVED SEED POTATO KNIFE

It is thin and of the right shape to cut 1, 2 or 3 eye pieces fast and not crack the tuber nor injure the germ. Each 35c, postpaid.



CONCAVED AND CURVED POTATO KNIFE



RURAL NEW YORKER

## BURBANK

### A Standard Long White Variety.

An old standard main crop variety which is very popular because of market demand and heavy yields. Satisfies both the grower and the consumer. Tubers are large, oblong and have fairly deep eyes. Color white, quality excellent cooking very mealy and of attractive whiteness that pleases. It is the standard market potato in most of the potato growing districts and contends with Rural New Yorker for first place. Our seed is good and we offer it believing it will give results. In our opinion no white potato excels the Burbank in quality, and some grown in sandy soils on new land often command a premium in city markets. Pk. 50c, bu. \$1.50. See red ink price list for quantity prices.

# SEED SWEET POTATOES

### PRICES SUBJECT TO CHANGE OF MARKET.

Every family should grow sweet potatoes. They thrive on any of the loam soils of the middle west, and do specially well on sandy ground. Nearly everybody likes sweet potatoes and they are so easily grown that there should be plenty at every home where a small plot of ground is available. You can raise enough from a few hundred plants to supply all you need. One customer reports 20 tubers, weighing over twenty pounds, from a single hill, and a full bushel from three hills this year. We do not recommend that you buy seed sweet potatoes for a small family garden. Better buy the plants unless you need one thousand or more. They are not expensive, they ship without loss, grow readily when transplanted and save quite a little labor in growing. Plants are priced both postpaid and by express, in large or small quantities, on page 32. It is not, however, difficult to grow plants and if you desire information on this topic ask for our circular "How to Grow Sweet Potatoes" and we will mail it free. In field culture the ridges are generally made for sweet potatoes before setting out the plants. The only secret is to keep them free from weeds and the ground mellow. After the vines begin to run they will keep down the weeds themselves.

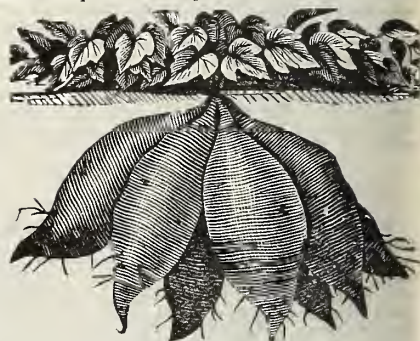
Our seed sweet potatoes are grown, stored and handled especially for seed purposes. They are not cold storage stock on which the germ has been killed but are fresh and vigorous. It is absolutely necessary that they be handled quickly in spring as they do not keep well after being taken from the storage bins. We cannot guarantee them to be all sound upon arrival and we try to protect our customers by prompt service. For this reason we hold the potatoes and fill orders at once so as to get them to you promptly. We usually ship from April 12th to 20th and notify our customers when we start them. Prices are subject to change of market, and we will be pleased to quote firm prices in March.

**EARLY YELLOW JERSEY.**—An improvement on the Yellow Nansemond. In spite of the many so-called new varieties, all of which we have tested, Early Jersey holds first place. The earliest and most productive; of large, short chunky shape and of the very best quality. It will probably always remain the most popular market sort. Peck 60c, bushel \$2.00, barrel \$4.50. Ask for price in quantities.

**RED JERSEY.**—Similar in shape to Yellow Jersey, but dark red color. Do not rot so quickly as other kinds and are preferred by many. Quality is excellent. Pk. 75c, bu. \$2.25, bbl. \$5.50.

**WHITESOUTHERN QUEEN.**—These are the large "Yams" which are so popular in the South. Even the seed potatoes are monster size and often weigh several pounds each. Peck 75c, bushel \$2.20, barrel \$5.00.

Be sure to notice the Red Ink Price List of Farm Seeds enclosed in this Catalog.



EARLY YELLOW JERSEY

Any of the above varieties of sweet potatoes by mail, postpaid, at 35c per lb., 3 lbs. for \$1.00.





## NEW CROP, RE-CLEANED, TESTED GRASS SEEDS

No seed firm in this country takes greater pains and care in the purchase and sale of grass seeds handled than do we, and none have experts of greater knowledge or better judgment. The men in charge of buying, cleaning and grading have all had more than twenty years' experience in our own establishment. We also have the latest and best cleaning machinery and thus equipped we are in position to furnish and do furnish the very highest possible quality in this line. No expense is spared either in purchase price or handling to keep up the quality; and of course it costs a little more, but when you see a field of grass, free from weeds, of strong and vigorous growth, you will realize that quality is and should be of greater concern than price. If grass seeds bought of us are not satisfactory they may be returned within fifteen days and money will be refunded.

### OUR IOWA SHIELD BRAND GRASS SEEDS

Now have a national reputation and are shipped to every part of the country where grasses grow. Our Iowa Shield Brand of Clover, Timothy and other seeds is strictly new crop of exceptional purity and has been thoroughly re-cleaned on the best electric seed cleaning apparatus made. It is plump, nice seed, carefully tested and proven to be of strong germinating qualities. These we have thoroughly re-cleaned, tested and carefully inspected under the microscope for foul weeds. To distinguish them from ordinary grades, we call our best grade the "Iowa Shield Brand." It is shipped in sealed and branded bags. It is sure to produce vigorous, healthy plants and an exceptionally good crop if the weather and soil conditions are not unfavorable. It pays to sow the best seeds obtainable and our Iowa Shield Brand is, we are sure, superior to any other.

Our Iowa Standard grade clover, timothy and other seeds is really a choice grade, fully up to requirements of the Iowa Pure Seed Law in purity and vitality, and is, we believe, as good seed as you could obtain from most dealers, but it is not equal to our Iowa Shield Brand.

**Write for prices.** They change constantly and we cannot make a price which will be invariable. We issue a price list each week or oftener, as required. If you are in a hurry order seed and we will send full value of money received on day order arrives. We pay postage at the 1 and 3 lb. rate only. If you want pound lots by express deduct 10c per lb. from price quoted. Large quantities shipped at purchaser's expense. Trial packets 5c each.

### TIMOTHY

We make a specialty of supplying the choicest timothy direct to farmers. No variety of our natural grasses is more cultivated than timothy, and for meadows it is very valuable. It is best suited to moist, rich, strong and loamy soils where it grows to perfection, but does not succeed as well on dry, sandy soil. It is very nutritious, and makes good hay, but should be cut at the time of flowering. We are located in the best section of the country for growing timothy seed and more of it is grown in Iowa than in any part of the world.

There is not more than one field of timothy in a hundred which produces our Iowa Shield grade. It is very bright in color, but little hulled, almost absolutely free from impurities and of high vitality, and therefore requires only about 8 lbs. of seed per acre. Per lb. 25c, 3 lbs. 60c, postpaid. Ask for price in quantity.



TIMOTHY



**IOWA SHIELD BRAND**

### CLEAN SEEDS

Few persons can detect impurities in grass seeds unless seed is very foul. Often our friends have watched our re-cleaning machines and wondered where the impurities came from, as the seed seemed without dirt or trash before cleaning. Grass seeds as they come from the thresher contain large quantities of impurities. For every pound of dirt in clover seed you pay 20 to 25 cents. Shrinkage usually runs from 3 to 6 lbs. per bushel. This makes quite a difference in real value and our seed is really worth \$1.00 to \$2.00 per bushel more than seed as commonly sold. No one should buy seeds from any source unless they have been thoroughly cleaned. We will be pleased to submit samples for inspection, or you can have seeds from us analyzed by any authority in the country and abide by the report. We know as near as anyone can that our seeds are clean and of superior quality.

### FARMOGERM

In response to inquiry from many patrons, we are here offering the one culture of nitrogen-gathering bacteria which seems most likely to succeed under general conditions and in the hands of inexperienced people. Little effort is required and needed instructions are printed on package.

**Farmogerm** furnishes the bacteria which fixes nitrogen in the form of nodules on the roots of plants like Clover, Alfalfa, Soy Beans, Cow Peas, etc. By its use more nodules for the storing of nitrogen are produced on the roots of the plants, and thus the plants grow stronger and more vigorous. There is a special Farmogerm for each crop. We furnish from the manufacturer's culture for any particular crop you desire, carrying in stock here three kinds, which will be sufficient for ordinary needs, as follows:

No. 1—For Red, White, Crimson, Alsike and Mammoth Clover.

No. 2—For Alfalfa and Sweet Clovers (any variety).

No. 5—For Garden Peas, Sweet Peas, Garden Beans, etc.

Sold in the following quantities, delivered:  
Garden size (for ¼ acre) 50c; for 1 acre \$2.00; for 5 acres, \$6.00.

### KENTUCKY BLUE GRASS

**Fancy Cleaned.**—Very valuable and popular as a permanent pasture grass. Productive and unusually early in spring, furnishing delicious food for all stock. Unexcelled for lawns. Our seed new crop, Kentucky grown. Sow 14 lbs. per acre for pasture, or 60 to 100 lbs. for lawns. Lb. 35c, 3 lbs. \$1.00, postpaid. See red ink price list for quantity values.

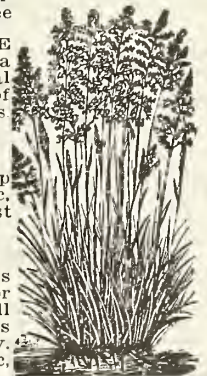
**"IOWA SHIELD" KENTUCKY BLUE GRASS.**—We pride ourselves on this extra choice grade, which is of such unusual purity and high germination that it is of special value for lawns. Lb. 40c, 3 lbs. \$1.10, postpaid. See price list.

### ITALIAN RYE GRASS

Annual variety; will give a large crop first year. Sow 20 lbs. per acre. Lb. 30c, 3 lbs. 75c, postpaid. See red ink price list for quantity values.

### PERENNIAL RYE GRASS

Or English Rye Grass.—A nutritious permanent grass for meadow or pasture or mixing with other grasses for lawn. Well adapted for permanent meadows; yields large quantities of very nutritive hay. Sow 20 lbs. per acre. Lb. 30c, 3 lbs. 75c, postpaid. See red ink price list for quantity values.



BLUE GRASS

WE MAKE NO EXTRA CHARGE FOR BAGS TO HOLD TIMOTHY, CLOVER AND OTHER GRASS SEEDS SHIPPED TO YOU.



## GRASS SEEDS--CONTINUED

**ORCHARD GRASS.**—A valuable grass for pasture or hay land, and on account of its earliness very valuable for permanent pastures. It furnishes the first green bite in the spring and the last in the fall, and is quick to recover from close cropping, and even thrives better the more it is cropped. Suited to shady places, orchards and groves. Sow 15 lbs. per acre. Per lb. 40c, 3 lbs. \$1.10, postpaid. By freight, bu. (14 lbs.) \$3.00. See red ink list for quantity price.

**MEADOW FESCUE, or English Blue Grass.**—Succeeds well in almost any soils, from high, dry land to moist, standing heat excellently. Valuable as a pasturage grass, being one of the earliest in spring and latest in fall. Very nutritious. Per lb. 40c, 3 lbs. \$1.10, postpaid. By freight, bu. (14 lbs.) \$2.00. See red ink list for quantity price.

**CREeping BENT GRASS.**—Of special value for pasture and low ground. Starts early, deep rooted; valued for holding sloping ground or terraces. Sow 15 lbs. per acre. Per lb. 60c, 3 lbs. \$1.50, postpaid. By freight, bu. (14 lbs.) \$5.00, 5 bushels or more at \$4.85 per bushel.

**MEADOW FOXTAIL.**—A fine grass for permanent pasture. Its growth resembles timothy. Sow 14 lbs. per acre. Per lb. 50c, 3 lbs. \$1.35, postpaid. By freight, bu. (14 lbs.) \$4.25, 5 bushels or more at \$4.10 per bushel.

**RED TOP.**—Very hardy native perennial; succeeds best on moist land. Remains green the greater part of year. In the east it is one of the principal sorts, but not so highly valued here. Fancy cleaned or solid seed. Per lb. 40c, 3 lbs. \$1.10, postpaid. By frt., bu. (14 lbs.) \$3.00, 5 bu. or more at \$2.80 bu.

**CRESTED DOGSTAIL.**—For permanent pastures on high land and hard, dry soils and hills; very hardy. Lb. 60c, 3 lbs. \$1.50, postpaid. By frt., bu. (14 lbs.) \$4.75, 5 bu. or more at \$4.50.

**RHODE ISLAND BENT.**—For particularly close, heavy turf. Lb. 60c, 3 lbs. \$1.50, postpaid. By frt., bu. (14 lbs.) \$5.50.

**SWEET VERNAL.**—See page 59.

**BERMUDA GRASS.**—Most valuable grass for the south withstands heat and drouth wonderfully. Valuable for hay and pasture and unsurpassed for lawns in the south, as runs over the ground, forming a dense turf. Sow 8 lbs. per acre. Per lb. 75c, 3 lbs. \$2.10, prepaid; 5 lbs. or more, no prepaid, at 50c per lb.

**RED FESCUE.**—For meadows or pastures on dry, hard sandy soils. It is very hardy, a true perennial, growing from 1 to 2½ ft. high. Per lb. 40c, 3 lbs. \$1.10, postpaid. By freight, per bu. (14 lbs.) \$3.75, 5 bu. or more at \$3.60 per bu.

**HARD FESCUE.**—Emphatically a grass for dry lands, doing well on sandy and shallow silicious soils. Exceedingly hardy and withstands extremes of heat, cold and drouth. Per lb. 40c, 3 lbs. \$1.10, postpaid. By freight, per bu. (14 lbs.) \$3.75, 5 bushels or more at \$3.65 per bushel.

**TALL MEADOW OAT-GRASS.**—For hay or permanent pasture a most valuable grass. Successfully grown in a parts of the country. Grows tall, therefore desirable for meadow. Does not winter-kill. Per lb. 40c, 3 lbs. \$1.10, postpaid. By frt., bu. (14 lbs.) \$3.50, 5 bu. or more at \$3.35 per bu.

**MEADOW SOFT GRASS.**—Although not of high feeding value, is very valuable for low, soft, spongy places, where other grasses don't succeed. Very productive; a hardy perennial; 18 to 20 in. high. Per lb. 35c, 3 lbs. \$1.00, postpaid. By frt., bu. (14 lbs.) \$3.00, 5 bu. or more at \$2.85 per bushel.

**SHEEP'S FESCUE.**—Suited to light, sandy soil, and dry uplands or hillsides. Deep rooted; not affected by drouth. Sheep are fond of it. Sow 14 lbs. per acre. Lb. 40c, 3 lbs. \$1.10, postpaid. By frt., bu. (14 lbs.) \$3.75, 5 bu. or more at \$3.60.

**WOOD MEADOW GRASS.**—Invaluable for wooded pasture or shaded ground; should be in all mixtures for permanent pastures, especially in shady places. Sow 20 lbs. per acre. Per lb. 65c, 3 lbs. \$1.80, postpaid. By freight, per bu. (14 lbs.) \$7.50, 5 bu. or more at \$7.35 per bushel.



## PERMANENT PASTURE AND MEADOW MIXTURES

### PERMANENT HOG PASTURE

Ready to use the first year and many years thereafter. Will fatten the hogs quickly and keep them in good health. Much superior to a corn diet for them and helps keep hog cholera and similar diseases away. It contains Perennial Rye Grass, Orchard Grass, Italian Rye Grass, Clover, Timothy, Red Top, etc. This has proven very popular and we believe it is far more valuable to hog raisers than ordinary pastures. Sow 15 lbs. per acre. Per lb. 35c, 3 lbs. \$1.00, prepaid. By frt., per bu. (15 lbs.) \$3.00, 2 bu. or more at \$2.85.

### PERMANENT MEADOW MIXTURES

Will make the best quality hay as the mixture contains such grasses as produce a heavy growth and mature together. We send out the No. 1 mixture when not otherwise ordered as it is adapted to the medium or average soils. Sow about 22 lbs. (1½ bu.) per acre; or for top seeding 10 to 15 lbs.

**NO. 1—FOR MEDIUM SOILS.**—Contains Meadow Fescue, Perennial Rye Grass, Italian Rye, Orchard Grass, Tall Meadow Oat, Timothy, Red Clover, Alsike, Sweet Vernal, etc.

**NO. 2—FOR HIGH, DRY LAND, LIGHT OR GRAVELLY SOILS.**—Contains Sheep's Fescue, Alfalfa, Hard Fescue, Perennial Rye Grass, Meadow Fescue, Timothy, Kentucky Blue Grass, Sweet Vernal, etc.

**NO. 3—FOR HIGH, DRY LAND, HEAVY OR CLAY SOILS.**—Contains much the same as above with the addition of Orchard Grass, Crested Dogtail and Bromus.

**NO. 4—FOR MOIST AND RICH SOIL, OR LAND SUBJECT TO OVERFLOW.**—Contains Water Meadow Grass, Meadow Foxtail, Perennial Rye Grass, Meadow Fescue, Red Top, Meadow Soft Grass, Alsike, Clover, etc.

**NO. 5—FOR TOP SEEDING SWAMPS, MARSHES, ETC.**—(Sow 10 lbs. per acre.) Contains much the same as above in different proportions.

### PRICES

Any of the above Permanent Meadow or Pasture Mixtures (unless otherwise stated), per lb. 35c, 3 lbs. \$1.00, postpaid. By freight or express, not prepaid, per bu. (15 lbs.) \$3.00, 2 bu. or more at \$2.85 per bu.

### DAIRY FARMERS' GRASS MIXTURES

Dairy farmers particularly desire to take a crop of hay off the meadow and have the aftergrowth for pasture. This can be successfully done with our Dairy Farmers' Grass Mixture, as it covers the ground and furnishes grazing until late in the fall. It consists of Red Clover, Alsike, Orchard Grass, Rye Grass, Tall Meadow Oat, Meadow Foxtail, English Blue Grass, Kentucky Blue Grass, etc. Sow 20 lbs. per acre. Per lb. 35c, 3 lbs. \$1.00, prepaid. By frt., per bu. (15 lbs.) \$3.25, 2 bu. or more at \$3.00 per bushel.

### PERMANENT PASTURE MIXTURES

A succession of grasses coming on constantly from earliest spring through the dry summer until freezing winter; permanent and keeps improving year after year. Sow about 22 lbs. (1½ bu.) per acre; for top seeding, half the amount.

**NO. 6—FOR MEDIUM SOILS.**—Contains Kentucky Blue Grass, Meadow Fescue, Perennial Rye Grass, Orchard Grass, Tall Meadow Oat Grass, Hard Fescue, Alsike Clover, White Clover, Timothy, Red Clover.

**NO. 7—FOR HIGH, DRY, GRAVELLY SOILS.**—Contains Sheep Fescue, Hard Fescue, Creeping Bent, Bromus Inermis, Crested Dogtail, Meadow Fescue, Timothy, Kentucky Blue Grass, White Clover, etc.

**NO. 8—FOR HIGH, DRY, HEAVY OR CLAY SOILS.**—Contains much the same as above, mixed in different proportions, with the addition of Alfalfa and Orchard Grass.

**NO. 9—FOR MOIST AND VERY RICH SOILS.**—Contains Perennial Rye Grass, Water Meadow Grass, Water Fescue, Meadow Foxtail, Orchard Grass, Meadow Soft Grass, Tall Meadow Oat Grass, Alsike, etc.

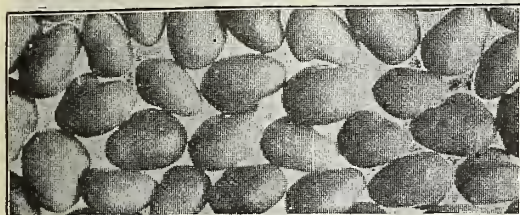
**NO. 10—FOR ORCHARDS, WOOD PASTURES AND SHADY PLACES.**—Contains Wood Meadow Grass, Kentucky Blue Grass, English Blue Grass, Meadow Foxtail, Sweet Vernal, Red Clover, Alsike, etc.

WE MAKE ALL OUR OWN MIXTURES OF GRASS SEED AND THEREFORE KNOW THAT THEY ARE OF CHOICEST QUALITY.



# EXTRA QUALITY IOWA GROWN CLOVER SEED

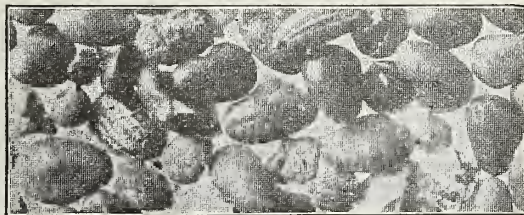
Iowa has a fairly good crop of Clover this year. Eastern states report a small yield and consequently higher prices will prevail. We are also ahead of other sections in quality this season. Iowa is freer from foul weeds than sister states.



IOWA SHIELD BRAND CLOVER

Notice the plump, perfect shaped grain and freedom from weeds. You cannot secure better seed, no matter what you pay for it, and it costs but little more. It always pays to sow the best you can obtain.

Market changes constantly and this part of the catalogue goes to press in November. It is impossible to name price at which clover seed will sell in spring. We therefore quote price only in small lots.



ORDINARY CLOVER

As it comes from the huller, full of weed seeds, trash and sand. If you buy low grade seed you not only risk filling your land with weeds, but you are also paying for each pound of weed seed and trash.

## MEDIUM OR COMMON RED CLOVER

### "Iowa Shield" Brand Clovers our Famous Specialties

We sell more clover seed direct to farmers than any seed firm in the West, and it is all sold because those farmers get better quality of seed—brighter, cleaner, more plump and vital—than they can secure elsewhere. The reason is that we take special care to have everything first class and protect our customers by using the microscope in both buying and selling.

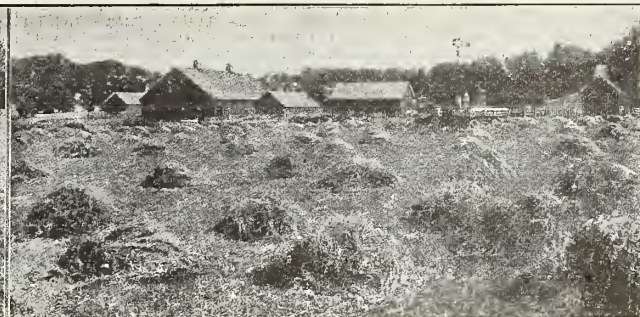
Our clover seed has become widely known for its purity, strong vitality, hardiness, vigorous and healthy growth, and stooling qualities, so that now we receive many orders

from the most distant parts of the United States. Well posted farmers appreciate the difference between it and ordinary stock. This is the most important of all clovers and the standard everywhere for hay and pasture and our "Iowa Shield" grade is the plumpest, cleanest, purest, fanciest grade; tested and of high vitality. Farmers usually sow 15 to 20 pounds of clover seed to the acre when sown alone, but this seed is so choice that 6 or 7 pounds is really sufficient if conditions are favorable, but we recommend sowing 10 pounds so as to be sure of a perfect stand. About 5 pounds, if sown with timothy. Per pound, 35c, 3 pounds 90c, postpaid. See red ink list for quantity price.

## MAMMOTH RED CLOVER

This is also called Sapling or Pea Vine Clover. It greatly resembles the Medium Red but grows coarser and more vigorous. It is the best clover for pasturage as it will produce an enormous yield and is of the highest feeding quality but not as desirable for hay. Specially desirable for hog pasture. You can enrich your soil more cheaply by sowing Mammoth Clover and plowing it under than in any other way. Per lb. 35c, 3 lbs. 90c, postpaid. Ask for price in quantity.

# AMERICAN GROWN HARDY ALFALFA SEED



Crops of Alfalfa on the farm of G. C. Greve, Gladbrook, Iowa, grown from Iowa Shield brand seed

Much is being written by agricultural writers on the advantages of Alfalfa as a profitable crop in the corn belt; in fact it is now being grown with success by progressive farmers in all parts of the country. We have prepared a circular on "How to Grow and Use Alfalfa" and will mail a copy to any of our friends who request it. There is no great difficulty in its production and we know from years of observation and experience that it will thrive on the loam soils of the middle west, and reports show that alfalfa is rapidly spreading throughout the United States.

## THE QUALITY OF SEED

As with medium red clover, the increasing demand for Alfalfa seed has caused immense quantities of low grade seed to be offered on the market. Thousands of bushels are imported each year, much of which contains impurities and foul weed seeds in such quantity as to make it really dangerous to sow. A great deal of the American grown seed is offered just as it comes from the hullers, full of weed seeds, sand, trash and immature grains so that it will not pay to use it. Prices change and we can only offer seed at market values. Ask for samples and prices when ready to buy.

## IOWA SHIELD ALFALFA SEED

No seed which we handle is given closer scrutiny than Alfalfa. We buy only the best offered; using the microscope and analyzing for purity. Our Iowa Shield Brand grade is the brightest, plumpest and cleanest we can find; and even this is not good enough for Shield grade until we have recleaned it through our perfected machinery and taken out everything in the way of sand, broken grains and dirt; and when it is put in the branded bags it is fit to sow anywhere. We invite the closest inspection of our Iowa Shield Brand Alfalfa from particular farmers and we will gladly

mail you a sample on request for microscopic inspection and analysis. Per lb. 30c, 3 lbs. 75c, postpaid.

## IOWA FANCY ALFALFA

Our fancy grade of Alfalfa seed is only a little below the Iowa Shield brand in quality. It will be found of excellent purity, free from prohibited weeds, and grading lower because of color rather than actual value. See red ink list.

## IOWA STANDARD ALFALFA

The Iowa Standard is a good grade of Alfalfa, fully up to standard of the Iowa pure seed law, and is in fact fully equal to most of the Alfalfa seed offered as "choice" or "prime" by other dealers. It is really nice seed and we will mail a sample for comparison if desired. Write for price.

## TURKESTAN ALFALFA

We import the seed of this variety, but are just as careful in our buying as we are in the purchase of American seed. There is a demand for this sort in the semi-arid regions of the west and northwest as it is said to be harder than our native sorts. The seed which we offer will be clean, plump and vital and in purity is nearly as good as our Iowa Shield Brand. If you want a hardy Alfalfa we recommend this to you without reserve. Per lb. 30c, 3 lbs. 75c, postpaid. Ask for bushel price.

ASK FOR OUR FREE CIRCULAR, "HOW TO GROW AND USE ALFALFA IN THE CORN BELT," FREE FOR THE ASKING.





## SWEET CLOVER

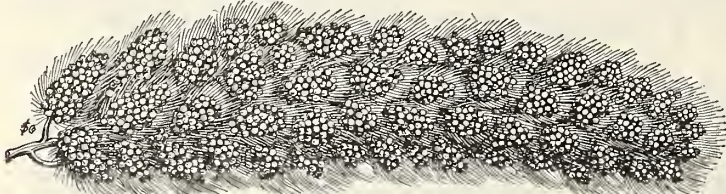
Ask for Circular on Sweet Clover and Price Per Bushel.

Sweet Clover has become a standard crop throughout the country. It is grown in every state in the Union. So great has grown the demand for seed that production has not been sufficient to keep prices down to low figures.

It is now being used in spring sowing exactly as common red clover. Some farmers seed it with small grain for nurse crop, while others are sowing it alone in early spring and securing both pasturage and hay the first year. The handling of this crop has passed the experimental stage. We have ceased to handle seed in the hull, as we now have machines to hull and clean it, so that we offer it in as high quality and purity as any clover. This is a great step forward, and our customers will appreciate the difference if they compare crops from our stock with that grown from ordinary seed.

**SCARIFYING THE SEED.**—One great difficulty with sweet clover in the past was slow germination. In the natural condition the seed has a very hard hull and the germ does not start quickly. Sometimes spring sown seed would not sprout until fall, and at best only about 70 per cent germination might be expected. Prof. H. D. Hughes, of the Iowa Agricultural College, at Ames, Iowa, has perfected a machine to scarify the seed, and kindly permitted us to install one in our warehouse so that we can now supply our customers with seed that will show a high percentage of germination. The process of scarifying results in rubbing the seed against sandpaper, so that the hull is very thin, while in other respects the seed retains its normal condition, except that the grains are a trifle smaller. The shrinkage in size, however, is not perceptible. Of course it costs a little more to add the extra cost of labor, and the loss by shrinkage is considerable, but you get value received. A bushel of scarified seed will give you 25 per cent greater germination than untreated seed, and is really worth that much more to the planter. Use 12 to 15 lbs. of scarified seed per acre. This gives a heavy stand resulting in hay of fine texture and quality.

Sweet Clover belongs to the family of leguminous plants, and adds greatly to the fertility of the soil on which it has been grown. The same bacteria which live on its roots thrive on the roots of alfalfa and therefore it is claimed that alfalfa will do much better on land where Sweet Clover has previously been grown. It roots very deeply, therefore opens up the soil so as to adapt it for all other kinds of crops, making it not only more rich in nitrogen, but allowing the roots of other plants to penetrate more deeply.



GERMAN MILLET

**IOWA SHIELD GERMAN MILLET.**—This is an extra fancy grade of the true southern grown German millet of the Tennessee or cultivated strain. The seeds are round and "shotty." The heads are very large, borne on a strong, vigorous, very leafy plant and produces a much heavier crop than the ordinary stock. Per lb. 25c, 3 lbs. 60c, postpaid.

**COMMON MILLET.**—Best quality. Preferred by some to German, as it does not grow so rank and coarse. Makes a better quality hay, but will not produce so heavily. Requires strong, rich ground for best results. Lb. 20c, 3 lbs. 60c, postpaid. In May in the north. Pkt. 5c, lb. 25c, 3 lbs. 70c, postpaid.

**SIBERIAN MILLET.**—Frequently called Red German millet. Resembles German millet in manner of growth and productivity. Earlier and seed is mixed red and yellow. Per lb. 20c, 3 lbs. 50c.

**WHITE BIENNIAL.**—(Medilotus Alba, or Bokhara.)—The white-flowered variety frequently seen growing wild along the roadsides. In growing it for hay, it is cut when about 18 inches to 2 feet high and before it begins to branch heavily. If the mower bar is set about 6 inches above the ground it will cut above the first branches and the clover produces a second crop. If cut too close to the ground the plants are not likely to survive the first cutting. Sow very early in spring or fall, and without a nurse crop. Germinates more quickly and freely if sown on a well prepared seed bed. Per lb. 40c, 3 lbs. \$1.00.

**YELLOW BIENNIAL.**—(Melilotus Officialis.)—Very similar to the commoner white-flowered (Melilotus Alba), but blooms a little earlier. Not so rank and coarse and for this reason is claimed to be superior. Per lb. 40c, 3 lbs. \$1.10.

**YELLOW ANNUAL.**—(Melilotus Indica.)—A small annual variety used for quick pasture; grows rapidly; ready for grazing in 60 days; for inoculating soil for alfalfa and for bee pasturage. Sow 10 lbs. per acre. Lb. 40c, 3 lbs. \$1.10.

## ALSIKE CLOVER

Unequaled for hay and we cannot too strongly recommend it to our customers. It is hardy even in northern Minnesota, and is the only variety which will produce a good crop and not kill out in low, wet land. The hay is finer and better than any other, therefore of special value for sowing with timothy. Height 18 to 24 inches, and has round pink or flesh colored heads. Seed small and requires only about 7 lbs. per acre or half that if sown with timothy. Per lb. 40c, 3 lbs. \$1.10, postpaid. Ask for price per bushel.

## WHITE DUTCH CLOVER

Valuable in pasture mixtures. Also used largely for lawns. Hardest of any clover. Creeping habit. Desirable for terraces and sloping grounds. Our "Iowa Shield" grade is extra bright and fine. Sow 5 lbs. per acre. Per lb. 70c, 3 lbs. \$2.00, postpaid.

## CRIMSON CLOVER

(Also called Giant Incarnate.)—An annual variety. It commences to grow after cutting the grain nurse crop and continues until severe freezing weather and makes good hay. Sow in April or May, 20 lbs. per acre. Winter kills in this latitude. Desirable for soiling. Per lb. 35c, 3 lbs. \$1.00, postpaid. Ask for price in quantity.

## MILLET

There is nothing like millet to cover up shortage in your hay crops. Can be sown in the middle or end of July and makes a valuable catch crop. This catalogue is printed six months in advance of sowing season, so we do not quote prices on large lots.

**GERMAN MILLET.**—Matures about two weeks later than common millet. It grows 4 to 5 feet high, yielding an abundance of leaves; heads closely condensed; spikes very numerous; seeds round, golden yellow, in rough sheaths. Sow 50 lb. to acre. "Iowa Shield" brand is desirable. Lb. 20c, 3 lbs. 50c, postpaid.

**HUNGARIAN.**—Popular in some sections. Sometimes preferred to millets as it is thought to be less dusty. Per lb. 20c, 3 lbs. 50c, prepaid.

**JAPANESE MILLET.**—(Panicum crus-galli.)—A distinct variety called by one seedsman the "Billion Dollar Grass." Especially valuable for the north. Yields an enormous crop of forage, which is greatly relished by stock. When cured makes an excellent hay. Per lb. 30c, 3 lbs. 75c, postpaid.

**MANITOBA MILLET.**—Hog or Broomcorn millet. Best for withstanding drouth. Two weeks earlier than German. Per lb. 20c, 3 lbs. 50c, postpaid.

**PEARL MILLET.**—Entirely different from ordinary millet; an immense fodder yield, of tall growth, highly recommended by the Dept. of Agriculture for the south. Sow in May in the North. Per lb. 35c, 3 lbs. \$1.00, postpaid.

THE SALE OF SWEET CLOVER SEED INCREASES EACH YEAR AS ITS VALUE BECOMES BETTER KNOWN TO OUR FRIENDS.



# LAWN GRASS SEED

**"EVERGREEN"**

AND

**"SHADY PLACE"**

Lawn Grass

Prepared by

**THE IOWA SEED CO.**

DES MOINES, IOWA

A nice velvety lawn adds more to the beauty of a place than any other adornment, and even the humblest home may be made attractive with such surroundings, while without a good lawn even the finest flowering plants and elegantly arranged beds seem insignificant. How important it is then to plan for the best lawn obtainable. Do not spend money in sodding a lawn, for it is expensive and seldom satisfactory. When sod is cut from the roadside or some out-of-the-way pasture, it is poor in quality and full of weeds, and when unevenly laid produces a rough surface which disfigures the lawn. It costs much less to sow the seed and the lawn is far better. Ask for twenty-page circular of information, "How to Make a Lawn."

**EVERGREEN MIXED LAWN GRASS SEED.**—This is our own special mixture of the very best varieties of grass seeds which are suited for growing together in the central and northern states and will make a beautiful, soft, velvety lawn, as handsome green as an emerald, and is formed of grasses which keep green from early spring all through the hot, dry summer weather, until late in the fall. It comes up quickly (in about two weeks after seed is sown), and after once up it soon spreads to cover the ground and is ready for the lawnmower in six or eight weeks. It is permanent, maintaining its beauty for a lifetime, though it is a good plan to give a lawn a top seeding every two or three years. Made by us from new crop, re-cleaned, pure seeds. Per lb. (will sow 400 square feet) 40c, 3 lbs. \$1.10, postpaid. By freight, per bu. (15 lbs.) \$3.60, 5 bushel or more at \$3.40 per bushel.

**TERRACE LAWN MIXTURE.**—It is very difficult sometimes to grow a good sod on sloping ground, terraces, side hills, or on embankments. This is a mixture of grasses which have strong and spreading roots, making a close turf which heavy rains cannot wash out easily. On new lawns some oats should be sown in order to prevent washing until the grass gets a start. Per lb. 50c, 3 lbs. \$1.35, postpaid. By freight, per bushel (15 lbs.) \$4.25.

**GOLF LINKS MIXTURE.**—A mixture of fine grasses which liberally sown produces a fine green sward. They grow vigorously when cut closely, form a fine mass of interlacing roots, and also differ in their seasons of maturity, so a succession of fresh growths is secured from the early spring to latest fall. Per lb. 50c, 3 lbs. \$1.35, postpaid. By freight, per bushel (15 lbs.) \$4.25.

**WHITE CLOVER, "Iowa Shield" Brand.**—The well known common white clover is very hardy and its dwarf growth makes it desirable for lawn mixtures. Its close, dense turf and creeping habit makes it fine for terraces and sloping ground. Seed very small and requires but little in mixtures. Lb. 70c, 3 lbs. \$2.00, postpaid.

**KENTUCKY BLUE GRASS, "Iowa Shield" Brand.**—Our stock of this is the best grade of fancy cleaned, new crop, tested seed. The crop is very good, but prices may advance before spring. Lb. 40c, 3 lbs. for \$1.10, prepaid. By freight, per bu. (14 lbs.) \$3.00, 5 bu. or more at \$2.85 per bushel.

**LAWN FLOWER SEED MIXTURE.**—A special mixture of low growing, quick blooming flowers, very desirable for sowing with Lawn Grass Seed in the spring. They come up quickly, afford shelter for grass seed and will bloom by the time the grass requires cutting the first time. Also desirable for sowing on an old lawn very early in the season. Pkt. 10c, oz. 25c.

## LAWN FERTILIZERS

**PEERLESS LAWN FERTILIZER.**—Lawn grass is a voracious feeder and will not thrive and hold its beautiful dark green color and velvety appearance unless it is suitably fed. Our Peerless Lawn Dressing is prepared specially for lawns, is of best quality, dry, finely pulverized, easy to apply. Possesses in the highest degree and concentrated form the constituents best calculated to nourish grass, promote luxuriant growth and the dark green color so admired. Not only the most perfect lawn dressing devised, but the most pleasant to handle, being practically non-odorous. In preparing a new lawn, sow 10 to 30 lbs. per 1,000 sq. ft. of surface, according to richness of soil, raking in thoroughly. For top dressing on lawns, use about 40 lbs. per 1,000 sq. ft., or 1,000 lbs. per acre, early in spring. 10 lb. pkg. 90c, 25 lbs. \$1.00, 50 lbs. \$1.60, 100 lbs. \$2.75, 500 lbs. or more at \$2.50.

**SHEEP MANURE.**—This is a natural manure. Is unadulterated and has far more fertilizing value than the packing house products. If wanted to use in liquid form, dissolve at the rate of 1 lb. to 5 gallons of water. Price, 10 lbs. for 50c, 50 lbs. \$1.25, 100 lbs. for \$2.00, 500 lbs. or more at \$1.75 per 100.

**PURE BONE MEAL.**—A splendid fertilizer for all purposes; specially nice for use on lawns, as it is clean, free from odor and gives results in added growth of grass. Preferred by many users because it lasts longer than any of the other fertilizers. 50c, 50 lbs. \$1.25, 100 lbs. \$2.25.



Roots of grass showing need of fertilizers, one application usually showing results for several seasons. 10 lbs. effect of Peerless Lawn Fertilizer. 50c, 50 lbs. \$1.25, 100 lbs. \$2.25.



Roots of grass showing effect of Peerless Lawn Dressing.



# FLOWER SEEDS.

Our floral beauties come in for their full share of attention, and aside from our seed farm we have twelve acres of land right in the city, convenient to the street cars, devoted exclusively to flowers. Here we grow thousands of varieties and have in our employ experienced specialists in this line, who, under our supervision, attend to growing whatever can be grown to advantage in this country, test all novelties offered in this country or Europe, and are constantly trying by selection and hybridization to improve the leading varieties, and make our choice Iowa Flower seeds just what we are striving for—the best in the world. We invite all our customers to call and see this Floral Exhibition whenever they are in the city. Even during the winter the large green-houses on these grounds are a revelation of beauty which surprises everyone. We also have a large acreage on our seed farms east of this city devoted to floriculture. Our flower seeds are all fresh and we know are unsurpassed. Quality is always the first consideration. Our mixtures are mainly made up by ourselves from named varieties, or from growing a large number of the best named varieties together, and will yield a better assortment than is commonly found. This year we classify the climbers, everlasting and grasses separately at the end of the list. Don't fail to notice also the novelties listed on colored pages of this book.

## HOME FLORICULTURE

By Chas. N. Page, formerly President Iowa Seed Co.  
A book of instructions for growing flowers either from seeds or plants. Price in paper covers 25c, or will be mailed free on orders of \$2.00 or more, if asked for.

**DIRECTIONS FOR SOWING, ETC.**—The conditions and requirements of the several species as to soil, moisture, heat, etc., should be studied and observed in culture. We give a few general instructions though more complete directions are printed on seed packets. The soil best adapted to most flowers is light, rich loam, containing enough sand to make it porous. If there is some clay with it the colors will be brighter. Make surface smooth and fine as possible; sow seeds in rows, covering each sort of seed in proportion to its size (a good general rule being to cover twice the diameter of the seed) and press the soil down firmly over it. Do not plant any seeds when the ground is wet. Many varieties, such as pansy, verbena, daisy, hollyhock and the fine greenhouse plant seeds, should be sown early in shallow boxes in the house, in soil consisting of equal parts of fine sand and rich, mellow loam well mixed together and sifted to remove all gravel and lumps. Sow as before directed. Covering the box with glass helps to retain the moisture and keeps the temperature even. Be careful not to keep too wet, and when large enough to handle, transplant to boxes from one to two inches apart to remain until put in permanent beds.



ABRONIA



AMARANTHUS



ARCTOTIS GRANDIS



ANTIRRHINUM



ALYSSUM

## ABRONIA

Trailing habit similar to verbenas, bearing clusters of sweet-scented flowers. Effective for bedding in masses, very desirable for rockwork and hanging baskets. In beds sometimes one plant covers a yard square full of bloom. Rose color. Pkt. 5c; ¼ oz. 10c; oz. 20c.

## AGROSTEMMA

A hardy plant introduced from Russia; blossoms similar to pinks on long slender stems. Suitable for border plants; fine for bouquets or cemetery. Mixed colors. Pkt. 5c.

## AMARANTHUS

Prized for very handsome foliage, whether grown in conservatory or garden. Colors will be more brilliant if in moderately rich soil. Should not be planted in the north before the month of May.

**TRICOLOR.**—Leaves yellow, red and green; well known as "Joseph's Coat." Hardy annual; 2 feet high. Pkt. 5c.

**SALICIFOLIUS.**—Known as "Fountain Plant." Pkt. 5c.

**CAUDATUS.**—(Love Lies Bleeding.)—Produces long, drooping chains of brilliant colored flowers. Pkt. 5c.

**MIXED VARIETIES.**—Pkt. 5c; ¼ oz. 10c; oz. 30c.

## AMBROSIA

(Perfume Plant.)—Long spiral stem with abundant round, greenish-yellow buds and blossoms. Very fragrant. Fine for bouquets or floral work. Pkt. 5c; ¼ oz. 10c; oz. 25c.

## ARABIS

**ALPINA.**—Among the earliest blooming plants; very useful for rockwork, edgings, carpet bedding, etc. Flower pure white; plant 9 inches high, hardy perennial. Pkt. 5c.

## ALYSSUM

**SWEET.**—Has little white flowers, useful for small bouquets. Its fragrance, while sufficiently pronounced, is very delicate. Makes a pretty border and is one of the best plants for a basket or pot. Pkt. 5c; ¼ oz. 10c; oz. 25c.

**LITTLE GEM.**—The plants are very dwarf and remarkably uniform in growth; only 3 or 4 inches high and each spreads so as to completely cover a circular space 12 to 20 inches in diameter. The plants bloom while quite young and soon become one mass of white, remaining from spring until fall. Deliciously fragrant. Pkt. 5c; ¼ oz. 20c; oz. 50c.

## ASPERULA

**AZUREA SETOSA.**—Is a hardy, dwarf growing little annual, producing an abundance of small, light blue, sweet-scented flowers. Fine for bouquets. Pkt. 5c; ¼ oz. 10c; oz. 25c.

## ANTIRRHINUM

(Snapdragon)

**GIANT FLOWERED.**—Most beautiful new class, having all the finest colors and markings known in the old varieties, together with several new shades. Flowers are of immense size and produced in long spikes, 1 to 2 feet in height, almost as large and beautiful as gladiolus, blooming continuously. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

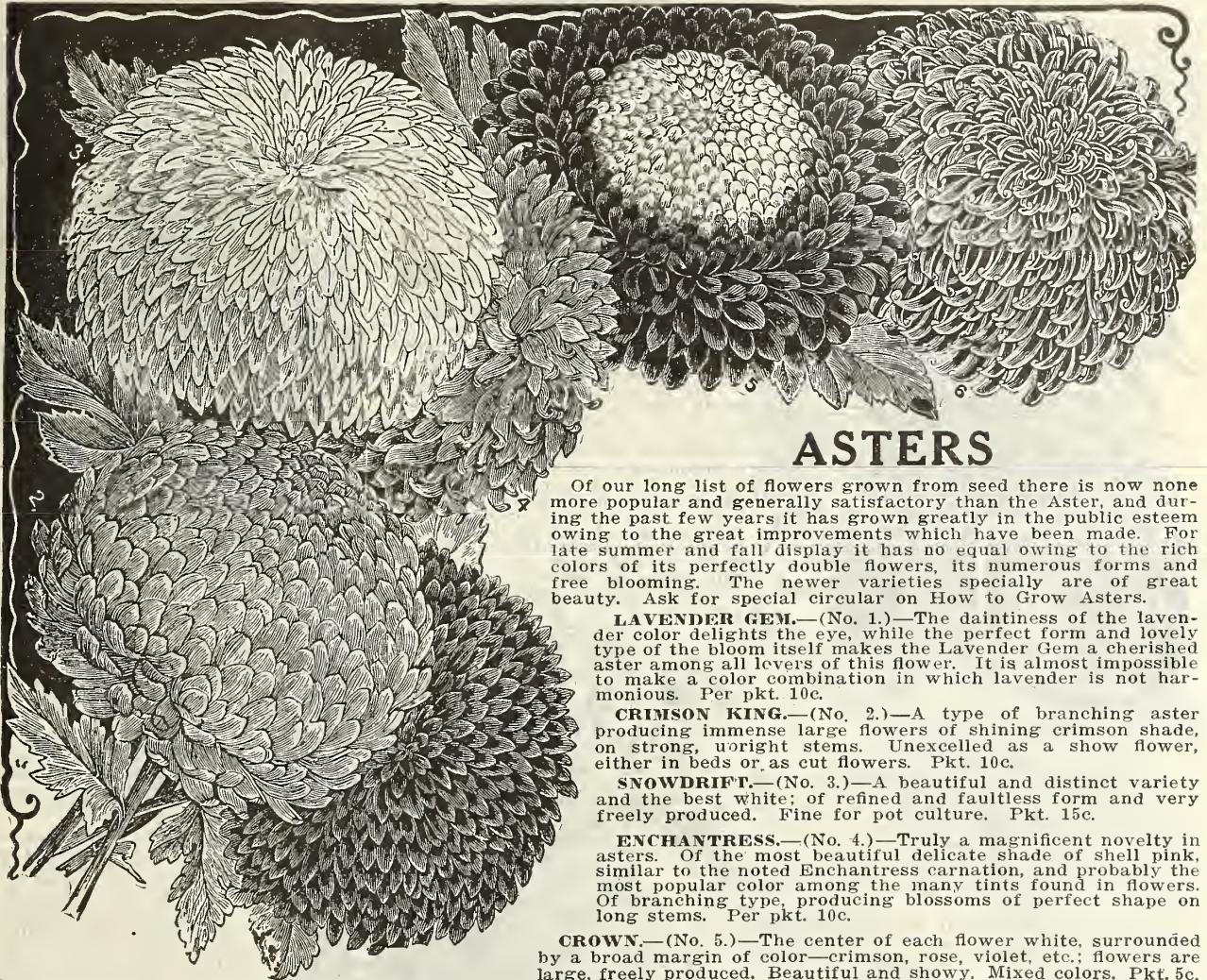
**DWARF MIXED.**—Large flower. Pkt. 5c; ¼ oz. 30c; oz. \$1.

## ARCTOTIS GRANDIS

This is a remarkably handsome annual which forms much-branched bushes 2 to 3 feet high, the foliage is soft and downy and of a whitish color; its flowers, borne on long stems, rising well above the foliage, are large and showy; the surface, embellished with a narrow yellow zone at base; reverse of petals lilac-blue; disc is light blue with slightly projecting white stamens. A lovely flower. Pkt. 10c.

YOU WILL BE WELL PLEASED WITH OUR CHOICE FLOWER SEEDS. THEY ARE THE VERY BEST OBTAINABLE.





## ASTERS

Of our long list of flowers grown from seed there is now none more popular and generally satisfactory than the Aster, and during the past few years it has grown greatly in the public esteem owing to the great improvements which have been made. For late summer and fall display it has no equal owing to the rich colors of its perfectly double flowers, its numerous forms and free blooming. The newer varieties specially are of great beauty. Ask for special circular on How to Grow Asters.

**LAVENDER GEM.**—(No. 1.)—The daintiness of the lavender color delights the eye, while the perfect form and lovely type of the bloom itself makes the Lavender Gem a cherished aster among all lovers of this flower. It is almost impossible to make a color combination in which lavender is not harmonious. Per pkt. 10c.

**CRIMSON KING.**—(No. 2.)—A type of branching aster producing immense large flowers of shining crimson shade, on strong, upright stems. Unexcelled as a show flower, either in beds or as cut flowers. Pkt. 10c.

**SNOWDRIFT.**—(No. 3.)—A beautiful and distinct variety and the best white; of refined and faultless form and very freely produced. Fine for pot culture. Pkt. 15c.

**ENCHANTRESS.**—(No. 4.)—Truly a magnificent novelty in asters. Of the most beautiful delicate shade of shell pink, similar to the noted Enchantress carnation, and probably the most popular color among the many tints found in flowers. Of branching type, producing blossoms of perfect shape on long stems. Per pkt. 10c.

**CROWN.**—(No. 5.)—The center of each flower white, surrounded by a broad margin of color—crimson, rose, violet, etc.; flowers are large, freely produced. Beautiful and showy. Mixed colors. Pkt. 5c.

**MARVEL.**—(No. 6.)—A most charming new variety from Germany. Flower large and petals pure white, beautifully striped with a band of blue, red, pink, lilac or some other distinct color down the center of each. A very brilliant and showy flower. Pkt. 15c.

### BIG SIX ASTER COLLECTION

One packet each of the six beautiful varieties illustrated in the above picture for 45c.

**IMPROVED BRANCHING.**—This is the most popular florists' strain. It is also a popular type for outdoor growing and is sold in greater quantity than any other. We can furnish it in the following colors:

White	Pink	Lavender
Rose	Crimson	Purple
Carmine	Dark Violet	Mixed colors

Each per pkt. 10c; ¼ oz. 40c; oz. \$1.25.

One packet each of eight separate colors of this splendid type for 50c.

**SEMPLE'S BRANCHING.**—Flowers are large and double, borne on large, stiff stems. Mixed colors. Pkt. 5c.

**GIANT COMET MIXED.**—Shape differs from all others, resembling the Japanese chrysanthemum. The flowers are from 3 to 4½ inches in diameter, perfectly double. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

**HARLEQUIN.**—A curious, attractive and beautiful variety with oddly spotted and striped very double flowers of red and blue. Popular for bouquets, as they harmonize so nicely with solid colored flowers. Pkt. 10c.

**MIKADO.**—Immense size with curled and twisted petals. A special strain from Giant Comet stock that is very attractive and popular. Mixed rose and white. Pkt. 15c.

**BETTERIDGE'S QUILLED.**—Perfectly double, tube or quill shaped petals; valuable for bouquets and bedding. Mixed colors. Pkt. 5c.

**QUEEN OF THE MARKET.**—This is generally conceded to be the best early type of aster. They usually bloom two weeks in advance of the ordinary branching types. Rather dwarf and of spreading habit. Mixed colors. Pkt. 5c, ¼ oz. 20c, oz. 60c.

**ROYAL MIXED.**—This is our choicest mixture of types and colors, made from named varieties and specialties in high grade asters. It will produce the widest range of colors and the strongest and most vigorous plants. Mixed in our own establishment to safeguard its quality. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

**VIOLET KING.**—Large flowers 4 to 5 inches across, of beautiful rich violet purple color. Pkt. 10c.

**PERFECTION MIXED.**—(Truffant's Improved Paeony Flowered.)—A favorite; flowers large and almost perfectly round, incurved petals. Pkt. 5c.

**WASHINGTON.**—Largest in cultivation, flowers often 5 to 6 inches across; mixed colors. Pkt. 10c; ¼ oz. 50c; oz. \$1.50.

**FINE MIXED.**—Mixture of varieties and colors from the fields of the growers. Good seed at a low price. Pkt. 5c; ¼ oz. 30c; oz. \$1.00.

**SINGLE FLOWERING MIXED.**—This plant bears a mass of star-shaped flowers. Pkt. 5c.

**PERENNIAL MIXED.**—Single flowering, hardy, herbaceous plants. If sown early will flower first season. Pkt. 5c.

### BANNER ASTER COLLECTION

Four Superb Sorts      Four Brilliant Colors  
One packet of each for only 25 cts  
Illustrated in colors on the back cover of catalogue.

**PURITY.**—A paeony flowered type of branching form, with flowers borne on long stems. Everyone appreciates the need of pure white in color harmony. The perfect form and large size of the flower decided us to choose this sort for our special collection. Pkt. 10c.

**DAYBREAK.**—Unusually large flowers, intensely double, of splendid form and substance, covering plant in profusion. Color a beautiful light sea shell pink. Flowers medium early and continuously. Plant of branching type. A delicate and dainty color and a general favorite. Pkt. 10c.

**ROYAL PURPLE.**—A truly royal flower, not only in sturdy character of the plant, but also in the great size and substance of the bloom, and the imperial richness of color in the flower. Of branching type with splendid blooms on long stems. Very popular because of its unusual color. Pkt. 10c.

**CARDINAL.**—This adds the brilliancy necessary to complete the quartette of beauty. We consider our Banner Aster Collection one of the best offers we have ever presented to our customers. It would not be complete, however, without the Cardinal to give the brightness and shining touch which a pleasing red always conveys. Pkt. 15c.

ASTER PLANTS GROWN FROM OUR CHOICE MIXTURES OF SEED ARE OFFERED AT A VERY LOW PRICE ON PAGE 109.





PEERLESS MIXED BALSAMS

**BALSAM**

One of the most beautiful of our annuals, and under the old names Lady Slipper and Touch-Me-Not, has always been popular, but by the care and attention given it in the last few years, it has been greatly improved. The flowers are most brilliantly colored, very large and double, rich in colors, ranging from pure white to rich dark crimson. The packets contain about 50 seeds.

**CAMELIA-FLOWERED MIXED.**—Are very double, resembling the camelia in form, of unusual size, perfect shape, and our mixture contains all the best colors. You will be greatly pleased with it. Pkt. 5c; oz. 40c.

**PEERLESS MIXED.**—A new mixture made up from the best foreign and American strains and their beauty is truly marvelous. Flowers are double and of all known colors. Plants are loaded with hundreds of flowers. Pkt. 10c; oz. 60c.

**ALL VARIETIES MIXED.**—A nice mixture of older sorts. Pkt. 5c; oz. 25c.

**BLUE BELLS**

The popular flower of Scotland. Beautiful bell-shaped, bright blue flowers. Hardy perennial. Pkt. 10c.

**BRACHYCOME**

Also called "Swan River Daisy." Very pretty low-growing plants, fine for borders, rustic work or pot culture, covered during summer with a profusion of cineraria-like flowers. Half-hardy annual. Mixed blue and white. Pkt. 5c.

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Wm. & A. Prosser  
1893



BROWALLIA GRANDIFLORA

**BROWALLIA**

**GRANDIFLORA.**—A new sort; most beautiful of all Browallias. Grow only about 1 ft. high; form dense little bushes covered with abundance of delightful extra large sky-blue flowers. Hardly another plant with blue flowers that compares with it. Pkt. 10c.

AFRICAN  
GOLDEN  
DAISY

etc. Very rich, lustrous, tropical appearing. Choice mixed. Per pkt. 25c.

**TUBEROUS-ROOTED.**—Valued for decoration; covered the whole summer with elegant flowers. Blooms first season from seed, if sown in February or March in temperature of 60°. Single and double mixed. Pkt. 15c.

**MIXED VARIETIES.**—Excellent varieties of flowering sorts. Pkt. 10c.

**MEXICAN BURNING BUSH**

This we consider one of the most ornamental border or hedge plants and is sure to attract attention. Known botanically as *Kochia Scoparia*. It grows quickly from seed sown in the open ground. Plants are always of the rounded or globe-like form shown in our illustration, branch freely, and the stems are clothed with slender light green leaves. Early in the fall the ends of the shoots are thickly set with small, bright scarlet flowers, the bushy plants resembling balls of fire. The plants are equally showy planted singly to show the round, ball-like form on all sides or grown in continuous rows. Per pkt. 5c; ¼ oz. 20c; oz. 50c.



MEXICAN BURNING BUSH

**AQUILEGIA**

(Columbine.)—Too much praise cannot be given to these elegant, free-flowering and deservedly popular hardy plants; bloom profusely through spring into early summer. Hardy perennial.

**LONG SPURRED HYBRIDS.**—A much more robust species, both in plant and flower than the ordinary kinds. Colors show wide variations and beauty. Splendid, showy, lasting flowers for interior. Pkt. 15c.

**CHRYSANTHA.**—The beautiful large flowered canary yellow variety. Very showy and satisfactory. Pkt. 5c.

**COERULEA.**—Flowers very large, violet, blue and white. Seed in mixed colors only. Pkt. 10c.

**DOUBLE VARIETIES MIXED.**—A fine assortment. Per pkt. 5c.

**AFRICAN GOLDEN DAISY**

(*Dimorphotheca Aurantiaca*.)

This showy annual comes from South Africa. Of recent introduction it is so profuse in bloom, so brilliant in color, so useful for decoration and so easily grown that it is becoming a great favorite everywhere. The blossoms are two to three inches in diameter, a peculiarly rich, glossy orange gold color produced quickly on sturdy, hardy, bushy plants 12 to 15 inches high. A bed of it in full bloom is truly a splendid show. Pkt. 10c.

**AGERATUM**

**BLUE PERFECTION.**—A great improvement over the common blue ageratum. Flowers larger and of a deeper blue. Blooms profusely; striking for beds or borders. Pkt. 10c; ¼ oz. 25c.

**MEXICANUM.**—(Blue.)—Suitable for beds; blooms long time; largely used by florists; start seeds early. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**ALBIFLORUM.**—Like above, only white. Pkt. 5c; ¼ oz. 15c; oz. 45c.



VERNON BEGONIA

**BEGONIA**

Seeds very small, almost microscopic, and should be sown on top of soil in box, pressing soil evenly. Cover with a glass and give partial shade until up.

**VERNON.**—Comes true from seed.

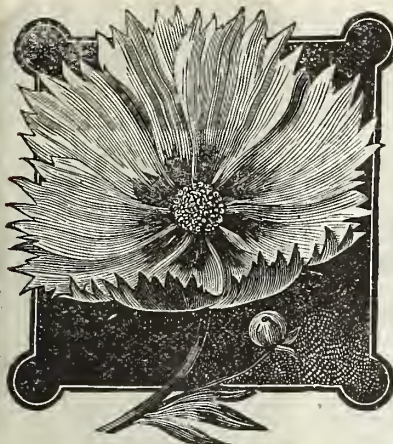
Plants grow rapidly and thrive under our hot summer sun. Fine for bedding. Pkt. 10c.

**REX.**—The king of Begonias. Have very large ornamental leaves of dark green, bronze, gold, red, etc.

**TUBEROUS-ROOTED.**—Valued for decoration; covered the whole summer with elegant flowers. Blooms first season from seed, if sown in February or March in temperature of 60°. Single and double mixed. Pkt. 15c.

**MIXED VARIETIES.**—Excellent varieties of flowering sorts. Pkt. 10c.





GOLDEN WAVE CALLIOPSIS.

## BUTTERFLY FLOWER

This large-flowering variety of *Schizanthus* is one of the handsomest annuals, the shape and colors being so unusual and exquisite that it challenges the rare orchids in beauty. Easily grown and makes a bushy plant fairly loaded with rich and various colored flowers. Pkt. 5c.

## CALLIOPSIS

Many of our most showy flowers are slighted because they are common and grow anywhere without trouble or care, almost like weeds. One of these is the calliopsis. Were it a new thing it would be considered a novelty of rare excellence.

**LANCEOLATA.**—New Golden Coreopsis. —One of the most showy hardy perennials grown, forming tall plants two or three feet high, and bearing in great profusion for a long period during the summer, large flowers of bright golden yellow. Unequaled for cutting. Grows anywhere. Pkt. 10c; ¼ oz. 25c; oz. 75c.

**GOLDEN WAVE.**—Plant very bushy and compact, reaching 2 ft. in height, covered from July to October with hundreds of beautiful golden blossoms 2 in. in diameter with small dark centers. It is indeed a wave of gold. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**SINGLE MIXED.**—Mixture of annual varieties. Many shades of yellow, red and brown. Pkt. 5c; ¼ oz. 10c; oz. 30c.

**NEW DOUBLE.**—A beautiful and charming new type of the annual Calliopsis. Pkt. 5c; ¼ oz. 25c; oz. 75c.

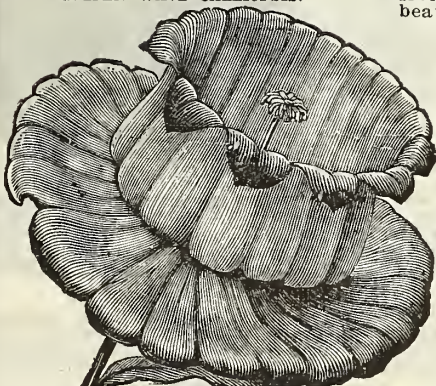
## CAMPANULA

**CUP AND SAUCER.**—A beautiful variety. Bell nearly 4 inches in diameter, presenting form of a saucer, hence its name. Plant is of strong growth, quite as hardy and floriferous as old blue variety, and is elegant and handsome, when in flower blossoms literally hiding plant. Perennial. Mixed colors. Pkt. 10c.

**SINGLE MIXED.**—A choice mixture of single sorts. Pkt. 5c.

**DOUBLE MIXED.**—Choicest seed from selected plants. Pkt. 10c.

**CANTERBURY BELLS.**—(Campanula Medium.)—See page 64.



CUP AND SAUCER CAMPANULA.

## CINERARIA

As will be seen by the illustration from a single plant, the Cineraria is a wonder for wealth of bloom and symmetry of form.

**LARGE FLOWERING MIXED.**—The plants grow perfectly circular in shape and are entirely covered with brilliant blossoms. The rich and vivid colors range through all shades of blue, purple and crimson. Most of the varieties have well-defined white eye and are unsurpassed for attractiveness. Pkt. 15c.

## CALENDULA

Belongs to the well known marigold family.

**FINE MIXED.**—Many nice varieties and when planted together they make a showy bed. Pkt. 5c; ¼ oz. 10c; oz. 25c.



CINERARIA.



CALENDULA

## CANDYTUFT

Considered indispensable for cutting. All varieties look best in beds or masses; hardy, easy to cultivate, and blooms profusely. Hardy annuals one foot high.

**GIANT EMPRESS.**—One of the finest varieties, in height between Rocket and Tom Thumb sorts. Of very branching habit and when fully grown and covered with its pure white flowers resembles a floral candelabra. Pkt. 10c.

**BEST MIXED.**—Mixture of all varieties and colors. Pkt. 5c; ¼ oz. 10c; oz. 30c.

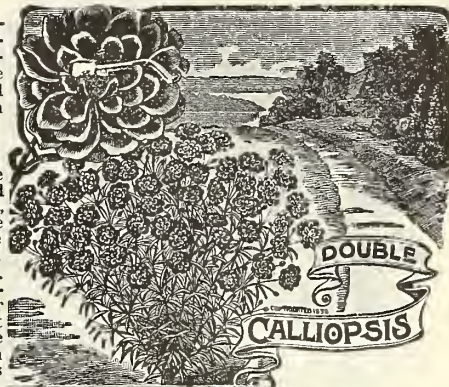
**SEMPERVIRENS.**—Profuse blooming white perennial. Early. Pkt. 10c.

## CARNATION

Finest of the dianthus or pink family. Very fragrant. Our seed unsurpassed.

**DOUBLE EXTRA MIXED.**—The best greenhouse varieties. Will produce wide variety in markings and colors. Pkt. 10c.

**MARGUERITE.**—Mixed.—These lovely, fragrant flowers are in full bloom in about four months after sowing. Plants succeed alike in the open garden or in pots, and are of such vigorous, dwarf, erect growth that no supports are required. The range of color, marking, variegations and shading are simply wonderful. Pkt. 10c.

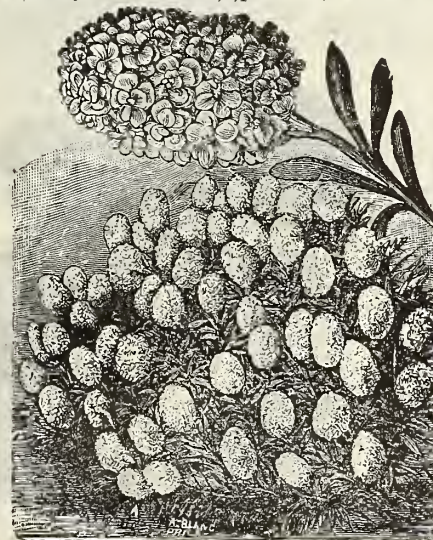
DOUBLE  
CALLIOPSIS

CANNA

## CANNA

Unquestionably one of the best of bedding plants for the American climate. Their handsome leaves combined with their varied and richly colored flowers have an extremely fine effect. Easily raised from seed which should be soaked in hot water for several hours.

**FANCY LARGE FLOW-ERED.**—A very large flowering dwarf variety, 3½ feet. Flower first year from seed. Mixture of finest flowering sorts. Pkt. 5c, oz. 25c.



GIANT EMPRESS CANDYTUFT.



MARGUERITE CARNATIONS





GIANT EMPRESS COCKSCOMB

pot plants or specimens in beds, where they excite the curiosity of visitors more than almost any plant that can be grown. The Empress is the finest and most gorgeous variety yet introduced. It is not uncommon for the heads of this variety to measure over twelve inches in breadth; purple combs and dark bronze foliage. Pkt. 10c.

**GOLDEN GLOW.**—A most attractive novelty. Plants large and produce many handsome flowers 5 to 10 inches in diameter, of a bright, rich golden yellow color. Per pkt. 5c.



COSMOS

A magnificent race of plants growing about 4 to 6 feet high, and in fall literally covered with graceful flowers resembling single dahlias, but better for cutting. As a cut flower for vases or personal wear its grace and beauty is unequalled. Easily raised from seed if sown early.

**LADY LENOX.**—Beautiful light pink flowers of extra large size, sometimes 6 inches in diameter. Full, vigorous plants, six to seven feet. Unequaled among annuals for screens and tall borders. Pkt. 10c; ¼ oz. 20c; oz. 50c.

**EARLY DAWN MIXED.**—Introduced by us and it jumped at once into popularity on account of its extreme earliness, coming in bloom about two months from time of sowing and continuing until destroyed by frost. The plants have fine, feathery, light green foliage and delicate rose, purple, white and lilac flowers. A free blooming plant of easiest culture. Mixed colors. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**MAMMOTH PERFECTION.**—Flowers double the size of the old flowering cosmos. Seed should be sown early in the house, as they are quite late. Pkt. 5c; ¼ oz. 15c; oz. 45c.

### CALALIA

**COCCINEA.**—A handsome, free-flowering little plant; owing to peculiar form of the flower it is sometimes called Tassel Flower or Flora's Paint Brush. Scarlet. Pkt. 5c.



DOUBLE CENTAUREA

## CACTUS

Almost everyone who keeps house plants likes to have a few nice Cacti. The seed we furnish is collected from the choicest varieties in Arizona, New Mexico, Texas, California and Old Mexico, as well as some foreign countries, and mixed together. Easily grown from seed planted in clean sand. Pkt. 10c.

## CELOSIA

For summer beds we know of nothing that will produce as showy and brilliant effects.

**SPICATA.**—A wonderful new variety of Celosia and far different from any ever before seen. It is a handsome annual, forming upright, well branched pyramids, about 2½ feet in height, and producing at the summit of each branch spikes of flowers of a bright rose color when opening, changing to silvery white; fine for garden or growing in pots. Pkt. 10c.

**OSTRICH FEATHER.**—Beautifully curled crimson plumes. Pkt. 10c.

**ALL VARIETIES MIXED.**—Pkt. 5c.

## COCKSCOMB

**GIANT EMPRESS.**—Is very handsome either for pot plants or specimens in beds, where they excite the curiosity of visitors more than almost any plant that can be grown. The Empress is the finest and most gorgeous variety yet introduced. It is not uncommon for the heads of this variety to measure over twelve inches in breadth; purple combs and dark bronze foliage. Pkt. 10c.

**GOLDEN GLOW.**—A most attractive novelty. Plants large and produce many handsome flowers 5 to 10 inches in diameter, of a bright, rich golden yellow color. Per pkt. 5c.

## CHINESE LANTERN PLANT

Showy annual about 18 inches high; bears large red

**CELOSIA SPICATA.**—Bachelors large red cherry-like fruits each enclosed in enormous balloon-like, semi-transparent calyx (about three inches long, at first light green, gradually changing to yellow, then orange, and finally crimson. Effective in autumn garden or pots. Better on rather poor soil. Pkt. 5c.

## CLARKIA

A very pretty and desirable hardy annual about 2 feet high. Flowers are white, red, purple, etc., borne in profusion during summer. **SINGLE AND DOUBLE MIXED.**—Pkt. 5c.

## COLEUS

Very decorative border plant. Pkt. of 150 seeds. **FINE MIXED COLORS.**—Pkt. 10c.

**RAINBOW.**—Finest sort; sure to please. Pkt. 15c.

## CENTAUREA

**CYANUS.**—Called Ragged Sailor, Corn Flower, Blue Bottle, Bachelor's Buttons and Blueet. A very old favorite garden annual, flowering freely in almost any situation. Height 2 to 3 feet. Mixed colors. Pkt. 5c; ¼ oz. 10c; oz. 30c.

**CYANUS DOUBLE.**—A most charming sport from the above, well shown in our illustration. Flowers very large and globular. A continuous bloomer, and becoming quite popular. Our mixture contains a great variety of colors. Pkt. 5c.

**MARGUERITE.**—One of the handsomest flowers ever produced. Large flowers of purest white, deliciously scented, exquisitely lacinated, freely produced. Pkt. 5c; ¼ oz. 20c; oz. 60c.

**GYMNOCARPA.**—(Dusty Miller.)—The foliage of this variety is finely cut and silvery. It is perhaps the best variety left plant for bedding purposes. Pkt. 5c.

**IMPERIALIS MIXED.**—A grand improvement on the old favorite Sweet Sultan; long stemmed blossoms 3 to 4 inches across, of graceful, airy effect, and deliciously fragrant. Glistening white, red, blue, lilac, royal purple, etc. Fine for bouquets, vases or as corsage flowers. If cut scarcely opened will last for ten days in water. Pkt. 10c; ¼ oz. 25c; oz. 75c.

## CHRYSANTHEMUM

The Annual Chrysanthemums are different from the large flowered perennial sorts grown by florists; grow easily from seed; flower freely in summer and fall.

**CHAMELEON.**—A new and distinct annual variety producing very large single flowers with purple, black, crimson, yellow and copper. Pkt. 10c.

**NEW DOUBLE ANNUAL.**—A valuable and unique novelty. Extremely variable. It is impossible to describe the beautiful forms produced. A great variety of colors, markings and pencillings. It is very double, semi-double or single, all equally charming. Pkt. 5c; ¼ oz. 20c; oz. 50c.

**PERENNIAL.**—Double Mixed.—This is the popular greenhouse sort. Showy and desirable for fall and early winter blooming. A great variety of colors, markings and pencillings. Very double, semi-double or single, all equally charming. Pkt. 5c; ¼ oz. 20c; oz. 50c.

## CANTERBURY BELLS

A very pretty perennial quite popular in some sections of the country. Double and single; mixed colors. Pkt. 10c.



CELOSIA SPICATA

Bachelors large red cherry-like fruits each enclosed in enormous balloon-like, semi-transparent calyx (about three inches long, at first light green, gradually changing to yellow, then orange, and finally crimson. Effective in autumn garden or pots. Better on rather poor soil. Pkt. 5c.

## CLARKIA

A very pretty and desirable hardy annual about 2 feet high. Flowers are white, red, purple, etc., borne in profusion during summer. **SINGLE AND DOUBLE MIXED.**—Pkt. 5c.

## COLEUS

Very decorative border plant. Pkt. of 150 seeds. **FINE MIXED COLORS.**—Pkt. 10c.

**RAINBOW.**—Finest sort; sure to please. Pkt. 15c.

## CENTAUREA

**CYANUS.**—Called Ragged Sailor, Corn Flower, Blue Bottle, Bachelor's Buttons and Blueet. A very old favorite garden annual, flowering freely in almost any situation. Height 2 to 3 feet. Mixed colors. Pkt. 5c; ¼ oz. 10c; oz. 30c.

**CYANUS DOUBLE.**—A most charming sport from the above, well shown in our illustration. Flowers very large and globular. A continuous bloomer, and becoming quite popular. Our mixture contains a great variety of colors. Pkt. 5c.

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**GYMNOCARPA.**—(Dusty Miller.)—The foliage of this variety is finely cut and silvery. It is perhaps the best variety left plant for bedding purposes. Pkt. 5c.

**IMPERIALIS MIXED.**—A grand improvement on the old favorite Sweet Sultan; long stemmed blossoms 3 to 4 inches across, of graceful, airy effect, and deliciously fragrant. Glistening white, red, blue, lilac, royal purple, etc. Fine for bouquets, vases or as corsage flowers. If cut scarcely opened will last for ten days in water. Pkt. 10c; ¼ oz. 25c; oz. 75c.



DOUBLE ANNUAL CHRYSANTEMUMS



**DAHLIA**

The dahlia is well known, but few are aware that if the seed is sown early in the spring they will bloom the first year.

**BEST DOUBLE MIXED.**—Our seed is of the finest strain, and produces large, very double flowers of richest shades. Pkt. 10c.

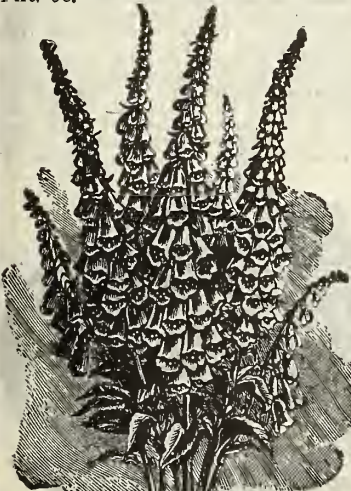
**SINGLE MIXED.**—Pkt. 5c.

**DATURA**

A large, strong-growing plant with trumpet-shaped flowers of large size.

**CORNUCOPIA.**—Plant about 3 feet high; stems dark purplish maroon; the flowers 8 in. long, 5 in. across throat, formed of two or three flowers one within the other. Very fragrant. Per pkt. 10c.

**DOUBLE VARIETIES.**—Mixed. Pkt. 5c.

**FOXGLOVE**

A showy perennial; a general favorite and now planted extensively for permanent backgrounds, borders and clump effects. Splendid for harmonizing with plantings of shrubs and thrives in any ordinary garden soil.

**MIXED COLORS.**—The old-fashioned sort. Pkt. 5c.

**GLOXINIAFOLIA.**—Is an improved strain growing 4 to 5 feet high, producing large gloxinia-like flowers of many shades and markings. More robust than ordinary sorts. Pkt. 5c.

**MONSTROSA MIXED.**—A distinct type, the striking feature of which is that a large bell-shaped blossom tops each spike. Pkt. 10c.

**DAISY**

Popular perennials, blooming the first year from seed; very handsome for borders or pots.

**BEST DOUBLE MIXED.**—Per pkt. 5c.

**NEW GIANT SNOWBALL.**—Most charming variety of this handsome little flower. Has unusually large double flowers on long stems, making it valuable for cutting. Color pure snow white. Pkt. 10c.

**SHASTA DAISY.**—See page 72.

**BUSH DOLICHOS**

**DWARF WHITE.**—Bush form of well known Hyacinth Bean, popular as a summer climber. Blossoms similar in appearance to sweet pea, but borne on long racemes; pure white and very lovely. Followed by ornamental pods. Pkt. 10c; oz. 40c.

**ESCHSCHOLTZIA**

**CRIMSON.**—This choice novelty is the result of nine years' careful selection from a chance sport in a bed of yellow Eschscholtzia, the state flower of California. Flower bright, handsome crimson. Easily grown, producing a profusion of flowers. Pkt. 10c.

**SINGLE MIXED.**—The common California poppy. Pkt. 5c; ¼ oz. 10c; oz. 35c.

**DOUBLE MIXED.**—We believe the double form of this flower will prove very satisfactory to all flower lovers. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**GOLDEN WEST.**—A giant flower of a rich golden yellow color some specimens having a dark orange blotch in the center. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**HUNNEMANNIA.**—"Bush Eschscholtzia." Flowers are cup shaped and about 3 in. in diameter. Color clear, bright yellow, having a satiny sheen over the surface. Sow thick as it generally germinates only about 50' per cent. Pkt. 10c.

**EUPHORBIA**

**VARIEGATA.**—Are strong growing annuals suitable for beds of tall growing plants or mixed borders; flowers inconspicuous; foliage, however, is ornamental, veined and margined white. Pkt. 5c.

**HETEROPHYLLA.**—(Annual Poinsettia.)—Bush-like with smooth, glossy-green leaves. In midsummer these are a beautiful orange-scarlet. Pkt. 10c.

**FOUR O'CLOCK**

(Mirabilis.)—The Marvel of Peru, or Four O'Clock. One of the most brilliant, showy annuals. Planted in beds or masses, their compact growth, rich, glossy leaves and profusion and diversity of bloom, present a gorgeous sight in the afternoon.

**TOM THUMB MIXED.**—A very handsome and compact dwarf, bushy plant, with elegant golden-variegated foliage; numerous brilliant flowers, pure yellow, deep red, and striped and blotched. Pkt. 5c; oz. 15c.

**MIXED COLORS AND VARIETIES.**—Contains a fine assortment of colors and is always satisfactory. Pkt. 5c; oz. 10c.

**GLADIOLUS**

Well known; is easily grown from seed, and we would like to have all our customers try raising them in this way. This seed is of our own growing, from the best varieties, and will produce a pleasing assortment. It blooms the second year from seed. Pkt. 5c.

**GODETIA**

Handsome, showy annual about one foot high, of dwarf, compact growth; bear freely flowers 3 to 4 in. across, of exquisite colors.

**MIXED VARIETIES.**—All colors. Pkt. 5c.

**DIANTHUS**

The Dianthus, or Chinese Pink, is one of our most useful plants, furnishing abundance of gay and pretty flowers until frozen and covered by drifting snows. Quite as pretty for pot plants in the house as carnations. Plants from seed grow and bloom very quickly.

**ORIENTAL OR JAPANESE MIXED.**—Markings and colors are rich and brilliant, form of blossoms dainty and beautiful. A few blooms will be solid colors but most of them will show wonderful variations, striped, blotched and banded. Colors range from white to deep crimson and maroon and flowers are produced profusely and continuously. More fragrant than older type of Dianthus. Pkt. 5c; ¼ oz. 20c; oz. 50c.

**FIREBALL.**—A beautiful, very dwarf and compact-growing pink, only 10 to 15 inches in height. Flowers are perfectly double and color a rich velvety blood red. Plants begin to flower shortly after coming up and continue till severe frost. Effective for garden beds. Pkt. 5c.

**SNOWBALL.**—Fit companion to above. Flowers large, pure white, double, finely fringed, perfect form. Pkt. 5c.

**IMPERIALIS.**—*Flore Pleno.*—Best selection of popular type of double sorts. Contains a wonderfully fine diversity of colors. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**MOURNING CLOAK.**—Magnificent new variety; very double large flowers of very dark mahogany, almost black, petals margined pure white. Pkt. 5c.

**HEDEWIGI.**—Finest selected double mixed. One of the most showy. Pkt. 5c; ¼ oz. 15c; oz. 50c.

**DOUBLE DIADEM PINK.**—A superb large double flower, is hieroglyphically marked, like the original Chinese pinks, in the middle down to the base of each petal; magnificent in color and variety. Pkt. 5c.

**CHINENSIS.**—(Double Chinese Pink.)—Mixed. Pkt. 5c; ¼ oz. 15c; oz. 50c.

**MIXED VARIETIES AND COLORS.**—Pkt. 5c; ¼ oz. 15c; oz. 50c.

**ELECTRIC LIGHT PLANT**

A sturdy, bushy plant of about 4 feet, covered constantly with large spikes of flowers 6 to 9 in. long which are pure white at base and range from rose to bright red at apex. Grows readily from seed, which should be planted in open ground early in spring. Showy and ornamental for clumps or massing. Pkt. 10c; ¼ oz. 25c; oz. 75c.



FOUR O'CLOCK



## GERANIUM

**GOOD VENTURE.**—A greatly improved strain of geranium seed grown by a specialist for our trade; easily raised from seed, which will frequently reward the cultivator with charming new varieties. Plants from seed started early in the house bloom the first summer in the garden. Some seeds come up in a few days and others in many days, perhaps weeks. Plants grow rapidly, are strong and thrifty. Pkt. (about 40 seeds), 15c.

**CHOICE MIXED.**—This seed saved from nice varieties and mixed. Pkt. 5c.

## GRASS PINKS

(*Dianthus Plumarius*.)

The hardy and pretty clove-scented flowers so much loved by our grandmothers. Their fragrance quickly noticed in passing yards where grown. There has been quite a call for these for several years. Colors range from pure white to dark pink, mostly a clear, delicate pink. A hardy perennial, fine for borders. Double and single mixed. Pkt. 5c; ¼ oz. 20c.

**DOUBLE CLOVE PINKS.**—A new type that grows more compact than old fashioned kind and has much wider range of shades and richer coloring. Blooms two weeks earlier than older type. Pkt. 10c; ¼ oz. 35c.

## GOLD AND SILVER FLOWER

A great novelty from New South Wales which we introduced. The flowers are silvery white, while center petals are yellow, giving appearance of a five dollar gold piece laid in the center of a silver dollar, which a few feet distant is quite striking and gave plant its name. Intensely double, blooms freely and is very ornamental not only in beds but for cut flowers; the flowers not only retain their beauty in vases, but are everlasting, pretty when dry. Pkt. 10c.



GOLD AND SILVER FLOWER

## HOLLYHOCKS

No garden flower is more showy or admired. Start seeds in a box in the house in February or March; about May 1st transfer to a permanent place in the garden. Will produce elegant spikes.

**EVERBLOOMING ANNUAL.**—A most showy flower for massing, borders and backgrounds. Started in the house in March or April and set out in May it blooms in July. Blooms until killing frosts in fall. Sown in the open ground in May it blooms in August. Of vigorous growth, from 5 to 8 ft. high, and stalks are fairly loaded with large flowers, sometimes 5 inches across. Colors, crimson, canary, yellow, pink, white, maroon, black, scarlet, etc., some beautifully veined and marked; double, semi double, single. Pkt. 10c; ¼ oz. 35c; oz. \$1.

**CHATER'S PRIZE DOUBLE MIXED.**—Magnificent double flowers 3 to 4 in. across, of the brightest colors; flowers quite as beautiful and perfect as those of the camelia, massed completely around spikes. A mixture of all colors and shades. Pkt. 10c; ¼ oz. 50c; oz. \$1.50.

**DOUBLE MIXED IN SOLID COLORS.**—White, yellow, salmon pink, bright red. Either color, pkt. 10c; 1 pkt. of each of the four colors 30c.

**ALLEGHENY MAMMOTH FRINGED.**—An entirely distinct variety. Flowers are single, double and semi-double, of fine form and rich colors. Splendid for borders or the hardy garden. Pkt. 5c.

**FINE MIXED.**—Good variety. Pkt. 5c; ¼ oz. 25c; oz. 75c.



EVERBLOOMING ANNUAL HOLLYHOCK

## GAILARDIA

The Blanket Flower. Exceedingly beautiful annuals, making very showy plants, 1 to 2 feet high. Grown in mass are especially effective.

**PERFECTION.**—Improved sort, producing very double flower, round as a perfect ball, in most varied and pleasing colors. Flowers are borne on long, slender stems and when cut keep for over a week. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**GRANDIFLORA.**—A splendid new perennial variety, with very large flowers, dark crimson centers, marked with rings of many brilliant colors; makes a nice showing in the yard. Pkt. 10c; ¼ oz. 20c; oz. 50c.



GAILLARDIA GRANDIFLORA

## GLOXINIA

Charming greenhouse plants, of dwarf habit. It flowers in greatest profusion, and the most exquisite and gorgeous colors; many are magnificently mottled, spotted and blended. Bloom continuously for months. Seed should be started under glass. Choice mixed. Pkt. 5c.

## GYPSOPHILA

Delicately pretty little flowers, sometimes called "Baby's Breath" or "Angel's Breath." Graceful and easily grown in open ground.

**ELEGANS.**—Mixed colors. Pkt. 5c.

**PANICULATA.**—White. Pkt. 5c.

## HIBISCUS

Of easiest culture, with large, exceedingly showy blossoms. Hardy annual, 2 feet high.

**CRIMSON EYE.**—A robust grower; dark red stems and foliage. Flowers often measure 20 inches in circumference, pure white, with large spot of deep velvety crimson in center. It blooms first year from seed and succeeds anywhere. Pkt. 5c.

**GOLDEN BOW.**—Enormous flowers 5 to 6 inches across, canary color, with large, black center. Pkt. 5c.

**MEHAN'S MALLOWS MARVEL.**—A magnificent new strain of hardy hibiscus producing wonderful flowers 8 to 10 in. in diameter. Colored from pure white to fiery red. Splendid for permanent planting. Easily grown from seed. Pkt. 10c; ¼ oz. 40c; oz. \$1.



## HELIOTROPE

A great favorite with all lovers of flowers for their beauty and fragrance; are well suited for beds or borders, where they will bloom in summer, and may then be carefully potted and cut back for winter blooming.

**CALIFORNIA MAMMOTH.**—A grand new variety producing immense flowers. Pkt. 10c.

**MIXED VARIETIES.**—Common sorts. Pkt. 5c.



**GOLDEN ROD**

A well known general favorite that grows wild on our western prairies. It has been adopted by New York as state flower. Is admired by all, and is easily grown from seed. Pkt. 5c.

**ICE PLANT**

A handsome and curious plant for hanging baskets, rockwork and vases. The leaves and stems appear as though covered with crystals. Peculiarly brilliant in sunshine. Flower white and pink.

**LARKSPUR**

Flowers are borne in compact spikes and are showy and desirable for any situation. Sow early in open ground.

**AMERICAN BANNER**.—Only flower we know which combines the national colors in each flower. About 2 feet high; is fairly loaded with long spikes of double striped and blotched flowers. Pkt. 10c; ¼ oz. 25c; oz. 75c.

**DWARF GERMAN ROCKET**.—Mixed colors. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**TALL GERMAN ROCKET**.—Mixed. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**PERENNIAL LARKSPUR**

**GOLD MEDAL HYBRIDS**.—A splendid strain. Immense spikes 2 to 3 feet, with large flowers mostly of light blue shades. Pkt. 10c.

**ELATUM HYBRIDIUM**.—The perennial larkspurs are most showy and useful in permanent plantings, as they produce splendid spikes of flowers all summer. Perfectly hardy, blooms first year if sown early. Mixed colors. Pkt. 5c.

**LANTANA**

**BRAZILIAN BEAUTY**.—Specially fine strain consisting of a mixture of choicest flowered sorts. Pkt. 10c.

**MIXED COLORS**.—Greenhouse perennial. Makes fine bedding or pot plant; easily grown from seed. Pkt. 5c.

**MIGNONETTE**

**SWEET SCENTED**.—The fragrance of the Mignonette makes it indispensable for bouquets and cutting. Sow seed early and they will commence blooming the first of June. Pkt. 5c; oz. 15c.

**GOLIATH**.—Foliage rich green, flowers brighter red color than any other sort. Immense spikes. Splendid variety of sweet fragrance. Pkt. 10c; ¼ oz. 25c; oz. 75c.

**ALLEN'S DEFIANCE**.—Valuable variety with mammoth spikes 12 to 15 inches long, more fragrant than any other. Florets of immense size and the cut flower often keeps three weeks. Pkt. 10c; ¼ oz. 20c; oz. 60c.

**MACHET**.—Makes a pretty and fragrant pot plant. Distinct variety of great merit. Vigorous dwarf growth with very large spikes of deliciously scented red flowers. Pkt. 5c; ¼ oz. 15c; oz. 50c.

**MARIGOLD**

A general favorite for planting in mixed beds and informal gardens, as they produce such great numbers of brilliant colored flowers that they are always a bright spot wherever planted.

**AFRICAN**.—This old favorite has been greatly improved in size and doubleness of its flowers. Double mixed. Pkt. 5c; ¼ oz. 10c; oz. 30c.

**DWARF FRENCH**.—Double, mixed colors. Pkt. 5c; ¼ oz. 10c; oz. 30c.

**LEMON QUEEN**.—A charming new variety producing large bell-shaped flowers of clear lemon or canary yellow color, making them closely resemble large double yellow dahlias, only produced more abundantly on longer stems. It blooms early and continuously. Pkt. 5c.

**ELDORADO**.—Immense flowers, 9 to 14 inches around; double; primrose, lemon, orange and golden shades. Three feet high. Pkt. 5c.

**MIMULUS**

**TIGRINUS**.—(Monkey Flower).—There are a wide range of colors in Mimulus Tigrinus. They are spotted scarlet, crimson and pink on yellow or white grounds and offer striking contrasts that are sure to please. Very showy and free flowering. The hardy kinds well suited for outdoors in any common soil. Mixed sorts. Pkt. 10c.

**MOSCHATUS**.—Well known musk plant; quite pretty, and has a strong musk fragrance. If better known this we are sure would be more grown as the odor is pleasant and it is nice for pot culture. Pkt. 5c.

**NICOTIANA**

**AFFINIS**.—Plant is covered with large, white, star-shaped flowers which, after being cut, remain perfect a week. A few plants perfume the whole garden. Pkt. 5c.

**SANDERAE HYBRIDS**.—Beautiful rosy carmine color and blooms freely. These new hybrids have also various shades of purple, pink, red, salmon, violet and white. Grows about 2 feet high, branches freely and loaded with flowers open all day. Sow seeds early in the house and transplant in May to open ground. Mixed colors. Pkt. 10c.

**NIGELLA (Love in the Mist)**

**MIXED COLORS**.—Hardy annuals about 1 ft. high; fine cut leaves and handsome flowers. Blooms early. A very pretty flower. Double flowers, blue, white and purple, beautifully veiled with feathery, delicate foliage. Pkt. 5c; ¼ oz. 10c; oz. 25c.

**MISS JEKYLL**.—A large and profusely blooming variety with bright sky-blue flowers and fine fern-like foliage. Taller than most kinds. Pkt. 10c; ¼ oz. 20c; oz. 60c.

**OENOTHERA (Evening Primrose)**

Blossoms fully expand only toward and during evening. Three to four inches across. A hardy annual. Mixed white and yellow. Pkt. 5c.

**HOME FLORICULTURE**

A book for amateur flower growers  
FREE TO CUSTOMERS

Tells how to care for field and house plants. A paper bound copy given free if you order \$2.00 worth of goods and ask for the book.

MISS JEKYLL NIGELLA



AMERICAN BANNER LARKSPUR

**LINUM**

**GRANDIFLORUM RUBRUM**.—(Scarlet Flax).—A most showy annual for flower beds and masses; brilliant crimson scarlet flowers, 1 inch across, in great profusion. Pkt. 5c; ¼ oz. 15c; oz. 50c.

**PERENNIAL**.—A beautiful hardy perennial sending up numerous stems, clothed with a small, almost hair-like foliage. At tips of the branches are poised large blossoms of blue, white and yellow flowers. Pkt. 5c; ¼ oz. 15c; oz. 50c.

**LOBELIA**

**ERINUS**.—A handsome trailing annual with blue flowers. Excellent for vases and hanging baskets. Pkt. 5c.

**COMPACTA**.—A dwarf variety. Flowers darker hue than above and cover plant; fine for carpet bedding or border. Pkt. 10c.



MIMULUS TIGRINUS

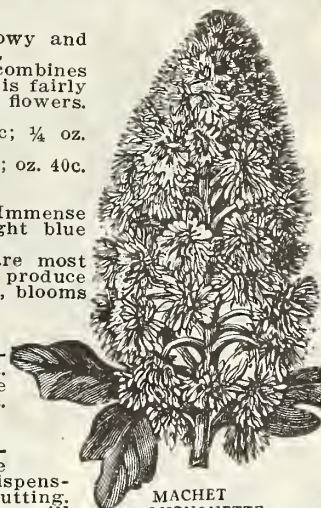
**LYCHNIS**

**HAAGEANA MIXED**.—The colors range from white through shades of orange, pink and red to deep crimson. Grows 12 to 18 inches. Large heads of showy flowers. Per packet 10c.

**CHALCEDONICA**.—Old favorite scarlet sort growing 3 feet high. Per packet 5c.



ELDORADO MARIGOLD



MACHET  
MIGNONETTE



MISS JEKYLL NIGELLA

THERE IS SPLENDID OPPORTUNITY FOR HOME ADORNMENT IN THE USE OF COMMON ANNUALS IN SOLID OR MIXED BEDS.



## NASTURTIIUMS

These may well be classed among our most showy and handsome annuals. They are of very easy culture, and make a continuous show of bloom. The following are the best varieties:

**AURORA.**—A magnificent variety. Plant forms a perfect globe literally covered with flowers, hiding the foliage when in full bloom. Deep chrome yellow, lower petals blotched with purplish carmine; finely marked with bright carmine veining. Pkt. 5c, oz. 15c.

**BEAUTY.**—An extra fine dwarf variety. Handsome scarlet flow-

ers splashed with canary yellow. One of the most attractive. Pkt. 5c, oz. 10c.

**CHAMELEON.**—The flowers of this new Tom Thumb nasturtium are colored crimson, gold and bronze, bordered and flamed, changing hue almost daily, hence named "Chameleon." Pkt. 5c, oz. 15c.

**EMPRESS OF INDIA.**—Dwarf, bushy habit, the leaves a dark, purplish blue color, making a suitable background for the brilliant crimson-scarlet flowers. Its profusion of bloom and richness of color are remarkable. Pkt. 5c, oz. 15c.

**GOLDEN QUEEN.**—Foliage of clear, bright yellow color. It is of dwarf, compact habit; flowers yellow. Pkt. 5c, oz. 15c.

**KING THEODORE.**—Darkest color in nasturtiums, deep scarlet maroon. Pkt. 5c, oz. 15c.

**LADYBIRD.**—Dwarf, neat, compact habit of growth. Flowers rich golden yellow, each petal barred with bright ruby crimson. A most lovely blossom. Pkt. 5c, oz. 10c.

**PEARL.**—Charming dwarf white sort. Pkt. 5c, oz. 10c.

**PRINCE HENRY.**—A beautiful flower of light yellow, marbled and striped with bright scarlet. Pkt. 5c, oz. 20c.

**IMPERIAL MIXED.**—Includes about twenty of the best dwarf varieties, both American and foreign. They are so selected that the colors harmonize beautifully and delight flower lovers. Of neat, compact habit of growth, and bloom freely when planted in beds, producing a mass of colors. Pkt. 5c, oz. 15c, ¼ lb. 50c.

**DWARF LILIPUT.**—Distinct new strain of very dwarf, compact growth that originated from the tall *Trapaeolum Loblanum*. Of smaller size than the well-known Tom Thumb nasturtium, closely compact in form, while the flowers and rounded, light green leaves are smaller in size. Flowers show many new and beautiful colors. Pkt. 5c, oz. 20c.

**DWARF VARIEGATED LEAVED.**—A splendid new type of dwarf nasturtium offered as presenting the most varied and divergent coloring. Not only are the flowers of the many shades and brilliant hues of the ordinary sorts but the foliage by the mottled and striped markings of green, white and golden yellow, afford an additional range of beauty. Pkt. 10c, oz. 20c.

**IVY LEAVED DWARF MIXED.**—Charming new type of nasturtium differing in foliage from the ordinary kinds, but retaining the same gorgeous coloring and profusion of bloom. Pkt. 5c, oz. 20c.

**GOLDEN BLOTCHED.**—Unique and beautiful foliage, the green leaves being blotched with bright golden yellow in such manner as to present a pleasing and attractive appearance. Pkt. 5c, oz. 10c.

**GOLDEN MIXED.**—A mixture of many shades and markings of the yellow leaved varieties, offering a harmonious blending of bright colors. Pkt. 5c, oz. 10c.

**DWARF VARIETIES MIXED.**—A nice mixture of colors of this free blooming class. We grow large quantities and can make a low price. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 65c.

## CLIMBING NASTURTIIUMS

**MADAM GUNTER'S HYBRIDS.**—Climbers and free, continuous bloomers. Color of flowers is most gorgeous, ranging from white through all the shades of pink, red, carmine, crimson, salmon, golden yellow to deepest brown and maroon—nearly black—all striped, shaded and blotched in an indescribable manner. Pkt. 5c, oz. 15c, ¼ lb. 45c.

**JUPITER OR SUNLIGHT.**—Attracts instant attention. The flowers measure 3¼ to 3½ inches in diameter, the petals 1¼ inches across. Blossoms have a most beautiful crinkled, crepe-like look; color is a splendid, rich, brilliant yellow. Pkt. 5c, oz. 15c.

**NAPOLEON III.**—Beautiful climbing variety with golden yellow flowers striped with rosy scarlet. Pkt. 5c, oz. 15c.

**LOBB'S NASTURTIIUM.**—These are much superior to the ordinary tall nasturtiums in brilliancy of flowers, height, rapid growth. All best named sorts, mixed. Pkt. 5c, oz. 15c.

**TALL VARIEGATED LEAVED.**—Each leaf variegated in a striking manner and this variegated foliage in contrast with the many different shades and markings of the flowers produces bewildering beauty of mingled colors that will delight the eye. Mixed colors. Pkt. 5c, oz. 15c.

**TALL VARIETIES MIXED.**—Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 65c.

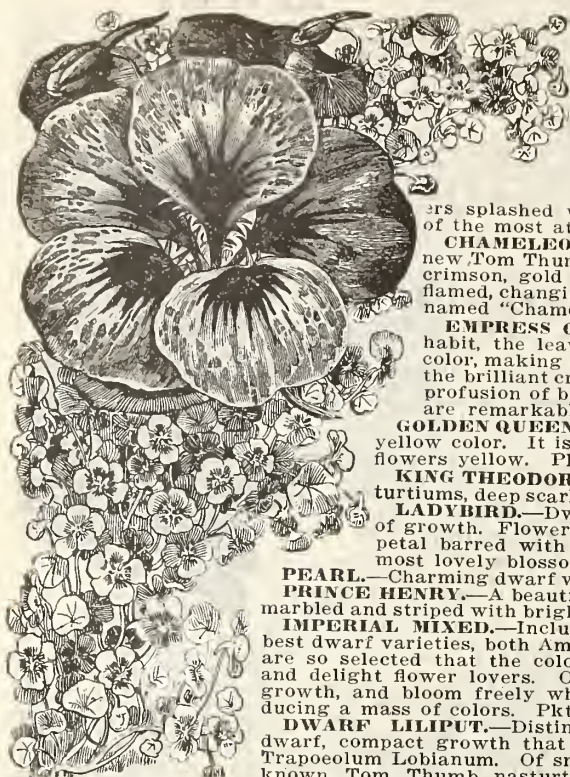
**KALEIDOSCOPE.**—Some are of clear yellow, orange, pink and creamy white, others are blotched, striped or bordered with rich contrasting shades. Of strong, vigorous growth; can be grown on the ground or trained upon a trellis. Specially suited for growing over low stumps, fences or rockery. Produces immense number of flowers. Pkt. 10c, oz. 30c.

**CAPRICE.**—A charming novelty; flowers changeable colors, a single plant often showing a dozen different colors or markings. Pkt. 10c, oz. 35c.

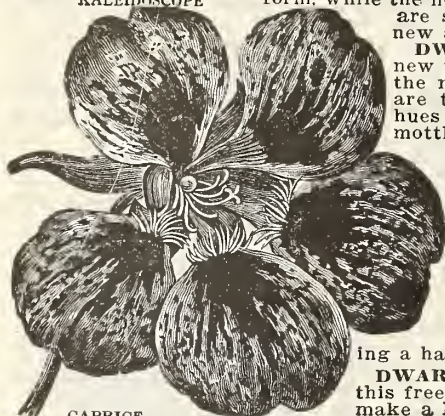
**KING OF THE BLACKS.**—A very handsome climbing sort with flowers of very rich dark brown, almost black. Pkt. 5c, oz. 15c.

**IVY LEAVED PERFECTION.**—This unique and most beautiful climbing nasturtium is different from others in foliage and flowers. Plants of running growth, star-like leaves of rich green veined with white. Flowers are of medium size, intense glowing scarlet in color, and of most distinct form. Pkt. 5c, oz. 15c.

**SPITFIRE.**—A most brilliant new variety of bright cardinal red. Most glowing color. Pkt. 5c, oz. 15c.



KALEIDOSCOPE



CAPRICE



IMPERIAL MIXED

### SPECIAL NASTURTIIUM OFFER

#### 16 DWARF KINDS

One pkt. of each of dwarf sorts named in above list for 60 cents, postpaid.

#### 11 CLIMBING KINDS

One pkt. of each of climbing sorts named in list below for 45 cents, postpaid.



MADAM GUNTER'S HYBRIDS

WE OFFER DOUBLE NASTURTIIUMS ON ANOTHER PAGE, IN THE PLANT LIST, SINCE THEY PRODUCE NO SEED.



## LOVELY PANSIES

Pansies are a specialty with us, and we use the greatest care in growing and importing the best strains. Circular giving full directions for growing pansies sent free if requested. Packets contain 100 to 250 seeds.

**PRETIOSO.**—(No. 3.)—A new strain of the world's best grower, imported only by us, and offered to our friends under special arrangement. It contains widest range of colors, the most diversified markings, and the most velvety substance of any mixed pansies now offered by the seed trade. They are great, large, fine blooms, of satiny finish and of brightest colors, which really shine with lustre. The plants have been bred up for robust habit and heavy growth. It requires strong plants to produce large blooms and lots of them. Nature alone brings forth the beauty of the flowers, and you must grow the Pretioso to realize its matchless splendor. Pkt. 15c; ¼ oz. \$2.50; oz. \$8.00.

**FANCY STRIPED.**—(No. 1.)—A beautiful variety from Belgium, with good sized flowers striped and mottled in various tints on contrasting ground. Pkt. 15c.

**IMPERIAL GERMAN MIXED.**—(No. 2.)—Magnificent flowers of richest hues, one of most popular sorts, of greatest excellence. Pkt. 10c, ¼ oz. \$1, oz. \$3.50.

**NEW RAINBOW.**—(No. 4.)—We consider the name appropriate owing to its beautiful iridescent colors. In a good-sized bed are a hundred different varieties but not a poor one nor an inferior. Flowers of large size and perfect in form, nearly circular and have a rich, velvety appearance; will delight "pansy fanciers." Pkt. 20c; ¼ oz. \$4.00; oz. \$12.00

**MAMMOTH BUTTERFLY.**—(No. 5.)—A pansy of matchless forms, colors and markings with flowers half as large again as ordinary pansies. Pkt. 10c.

**AMERICAN GIANT.**—(No. 6.)—A prominent pansy specialist in years of careful, painstaking labor in hybridizing and selecting a strain of pansies which would be superior to any in existence, has produced this extraordinarily fine strain which is of such strong, robust, luxuriant growth and produces such magnificent immense flowers, almost a superior race of pansies. Comprise practically all shades, colors and markings known in pansies including the Giant Bugnots, Cassier's and the large-flowered sorts from France, Germany, England, Holland and other countries. Also a strain of curled and ruffled pansies which appear double. Pkt. 15c, ¼ oz. \$2.50, oz. \$8.00.

**FINE MIXED.**—Consists of many good sorts. Pkt. 5c, ¼ oz. 35c, oz. \$1.00.

## ATTRACTIVE OFFER

An opportunity to procure the choicest types of pansies separately, or if you mix them yourself you are assured of the very widest range.

One packet each of the 8 illustrated mixtures, the finest assortment ever offered, 90c.



**MASTERPIECE.**—(No. 7.)—(Also offered under the names Superbissima and Germania.)—This superb new pansy is distinct from all others in form of flowers, the border of every petal being conspicuously undulated and curled, giving flowers appearance of a double pansy. Flowers very large. Pkt. 10c.

**INTERNATIONAL MIXTURE.**—(No. 8.)—Is a mixture consisting of a grand assortment from the world's leading specialists in Scotland, France, Belgium, Germany, Switzerland and America. If you like pansies you must have the International Mixture. Pkt. 15c, ¼ oz. \$3.00, oz. \$10.

**CASSIER'S GIANT ODIER.**—Flowers of immense size, and are of the popular Odier type, being all three-spotted or five-spotted on backgrounds of very rich colors. The flowers are of good substance and fine form, of most compact growth. Pkt. 15c.

**GIANT TRIMARDEAU.**—Flowers of very large size, some have measured 4 inches in diameter. Each flower marked with three large blotches or spots and stands well above foliage. Choice mixed colors. Pkt. 10c.

**VIOLET SCENTED, or Tufted Pansies.**—A cross between pansy and violet, with the delicious fragrance of the latter; mixed colors. Pkt. 10c.

## NAMED VARIETIES OF GIANT PANSIES

The varieties listed below are all of the giant flowered type; will produce fine blooms. They are splendid for pattern beds and borders or for massing.

**AZURE BLUE.**—A very fine shade of sky-blue. Pkt. 5c.

**FIRE KING.**—Distinct and striking. Upper petals bright red, of really a fiery shade, warranting the name. Pkt. 10c.

**GOLDEN YELLOW.**—Best of yellow varieties. Fine as a contrast. Pkt. 5c.

**KING OF BLACKS, or Faust.**—Flowers very dark, almost black. Pkt. 5c.

**LORD BEACONSFIELD.**—Fine large flowers of deep purple violet, shading off in the petals to a white hue. Pkt. 5c.

**MAHOGANY.**—A beautiful, rich, mottled mahogany color. Pkt. 5c.

**PEACOCK.**—Named Peacock because upper petals of flower resemble in color the peculiar shade seen only in feathers of the peacock, a beautiful ultra-marine blue. Petals edged with a thin white line, within which is purplish crimson passing into a rich central blotch of blue, shading to black. Pkt. 10c.

**QUADRICOLOR, or Pheasant's Eye.**—Upper petals sky blue edged with violet; lower petals spotted and marbled. Pkt. 5c.

**SNOW QUEEN.**—Flowers of a delicate, pure satiny white, handsome and attractive. It shows finely in beds or for cut flower work, and beautiful for cemetery use. Pkt. 5c.



## SPLENDID PETUNIAS

No garden is complete without a bed of elegant petunias. They commence flowering early and continue a mass of bloom throughout the whole season, until killed by frost; are easily cultivated, requiring rich soil and a sunny situation. Of late the single striped, mottled and double varieties have been greatly improved, and the cut gives but a faint idea of their great variety and beauty. Double varieties require care and should be started in the house.

**EMPEROR.**—The largest petunias in the list. Monstrous flowers fully five inches in diameter of the bell, and of unsurpassed colors and markings. Very fine for massing or sowing in wild borders. Pkt. 15c.

**GIANT FANCY FLOWERED.**—A grand new strain and the finest selection of petunia in existence, of incomparable beauty, size and luxuriance. Most of the flowers are exquisitely ruffled or fringed on edges, and of enormous dimensions (4 to 5 in. across), unlimited varieties of colors, markings, veinings, blotchings and stripings, in the most grotesque and beautiful combinations; with deep throats of carmine yellow, white, black, green or maroon, running off into intricate veins. Some colors are rich and gorgeous, others are of lovely delicate shades. If you like beautiful petunias be sure to include this in your order. Produces very little seed and will always be high in price. Worth double its weight in gold. Pkt. 25c.

**DOUBLE INIMITABLE.**—Splendid mixture. Our seed is the best German grown, and will produce about 25 per cent of fine double flowering plants. Pkt. 25c.

**LITTLE PET.**—(Howard's Star)—One of the prettiest little flowers we saw in the thousands of acres of flowers in Germany, France and other countries of Europe were these small flowered, compact growing, free blooming petunias. Round, bushy little plants about 8 in. high, covered for months with beautiful flowers which are widely open and always look fresh, bright and beautiful that the ladies "Just love them." Most of the flowers have a distinct five-pointed star in the center and they are of a great variety of colors. Pkt. 10c.

**GRANDIFLORA MIXED.**—Very large, elegant flowers; a great improvement and fully twice the size of the old sorts, with most beautiful shades of crimson, white, rose, maroon, etc., blotched, striped, veined, marked and fringed. Per pkt. of 200 seeds 10c.

**FINE MIXED.**—Best of older varieties. Extra fine striped and blotched sorts. Pkt. 5c; ¼ oz. 15c; oz. 50c.



FANCY FLOWERED PETUNIA

## PALMS

These for centuries past have been exclusively for the rich, the plants usually selling at \$3.00 to \$100.00 each. It is now known, however, that they are easy to grow from seed. Directions printed on packets.

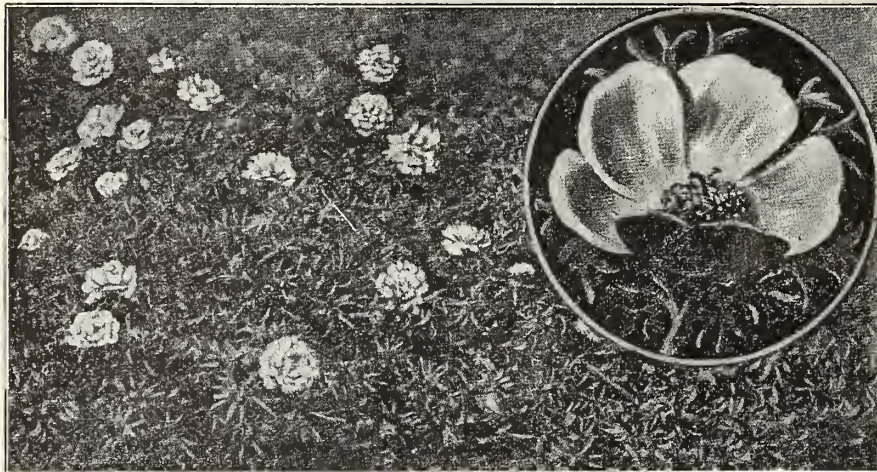
**PHOENIX DACTYLIFERA.**—Native of northern Africa; beautiful for pot culture, and very hardy. This palm produces the date of commerce. Pkt. of 10 seeds 5c.

**WASHINGTONIA FILIFERA.**—It stands dust, dry air and lack of sunshine. Its fan-shaped leaves fringed with long thread-like filaments. Pkt. of 12 seeds 5c.

**UMBRELLA PALM.**—(Cyperus)—See description with aquatic plants. Pkt. of 100 seeds 10c.

**LATANIA BORBONICA.**—This is the typical palm, is more largely used than any other; of strong and healthy habits; very desirable for house culture. Pkt. 6 seeds 10c.

**CHAMAEROPS EXCELSA.**—One of the very best plants for house culture in cool climates, and standing ill usage remarkably well. Pkt. of 10 seeds 10c.

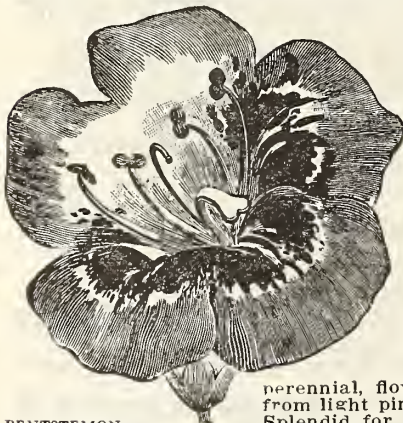


PLANT OF DOUBLE PORTULACCA

FLOWER OF SINGLE PORTULACCA

## BRILLIANT PORTULACA

**DOUBLE MIXED.**—This old favorite is one of the brightest blossoms in the entire list and makes a lovely little plant to cover up the bare spots in beds of taller growing plants. The flowers are double as a rose, brilliant with many shades of color, white, yellow, crimson, scarlet, pink and all blooming at mid-day and of afternoons. The dainty blossoms are splendid to add the little touch of color among the fruits on the dinner table. Pkt. 10c; ¼ oz. 50c.



PENTSTEMON

**GRANDIFLORA SINGLE MIXED.**—An old favorite sometimes known as rose moss. It forms a brilliant, striking bed of color on bright sunny days, and blooms brightest in the mid-day hours when other flowers are drooping. Very dwarf, low-growing plants, forming a mat on the ground. We offer a splendid mixture. Pkt. 5c; ¼ oz. 15c; oz. 50c.

## PENTSTEMON

**FINEST MIXED.**—Hardy perennial; sown early will bloom first year. Graceful growth; many spikes of Gloxinia-like flowers 2 ins. across; crimson, white, rose, purple, etc., beautifully edged and marked; blooms June to October. Give rich soil and good culture. Pkt. 10c.

## PYRETHRUM

**GOLDEN FEATHER.**—Beautiful golden-leaved foliage plants of special value for borders and ribbon beds. Pkt. 5c.

**ROSEUM HYBRIDUM.**—Large flowering perennial, flowers resembling cosmos and varying in colors from light pink to deep red with large yellow center in each. Splendid for long-keeping cut flowers. Pkt. 10c.

## SPECIAL GRAND OFFER

One packet of each of the five elegant varieties of Palms mentioned above for only 30c.



LATANIA BORBONICA PALM

IT IS DESIRABLE TO PURCHASE DOUBLE PETUNIA PLANTS IF YOU WANT THEM ALWAYS TRUE TO NAME AND COLOR.





## PHLOX DRUMMONDI

If we could have but one flower for our garden that one would be the Phlox. Its brilliant shades of color, ranging from clear white to brilliant scarlet, make an almost dazzling show; continually in bloom.

All varieties which we offer, except the common mixed, are of the large-flowering grandiflora class.

**FIRE BALL.**—Brilliant, dazzling scarlet; very handsome dwarf; compact. Pkt. 5c; ¼ oz. 35c; oz. \$1.25.

**GRANDIFLORA ALBA.**—Pure white, very large flowers, constantly in bloom. Pkt. 5c; ¼ oz. 30c; oz. \$1.00.

**GOLDEN JUBILEE.**—Entirely new color in Phlox, bright yellow; flowers nearly size of \$20 gold coin. Pkt. 5c.

**CUSPIDATA OR STAR.**—Petals run out in little spines, giving the flowers a beautiful effect. Many colors. Pkt. 5c.

**FRINGED MIXED.**—Very handsome. The flowers are of the most velvety colors and handsomely fringed. Pkt. 5c.

**MIXED VARIETIES.**—Mixtures of common sorts. Pkt. 5c; ¼ oz. 20c; oz. 60c.

**PERENNIAL MIXED.**—Splendid hardy plants which bloom continuously after the second year. Pkt. 5c.

## PRIMROSE

**CHINESE.**—Desirable plants for growing indoors, being in almost constant bloom all winter, and if transferred to the border will bloom nearly all summer. Though perennial, new plants will flower more freely, and seed should be sown every year. Start under glass. Mixed colors. Pkt. 15c.

**FORBESII.**—(Baby Primrose.)—A wonderfully free blooming little plant, covered with a mass of small flowers, especially during winter. Pkt. 10c.

**OBCONICA.**—(Everblooming Primrose.)—A favorite on account of its great blooming qualities, flowering nearly all the year through. Mixed colors. Pkt. 10c.



This grand old flower has kept pace with the march of improvement and now surprises us with its new forms, new sizes and new colors.

**ROSY MORN.**—Is really superb. Flowers are extremely double and of good size, forming perfect balls of unique and beautiful shade of rose—a new and distinct color in poppies; of easiest possible culture, belonging to the annual paecy flowered section. Pkt. 10c.

**SHIRLEY.**—(Lady Poppies)—A new single. In color from the purest white through the most delicate shades of rose, pink and carmine to the deepest crimson. Pkt. 5c; ¼ oz. 10c; oz. 30c.

**AMERICAN FLAG.**—Flowers extra large, very double, snow white, bordered with scarlet, thus making an extra choice, very showy variety, that should be popular. Pkt. 5c.

**DOUBLE CARNATION.**—Splendid assortment of best double carnation flowered sorts. The most popular variety and will make attractive bed. Pkt. 5c; ¼ oz. 10c; oz. 20c.

**SANTA ROSA MIXED.**—Improved from Shirley poppy; unusually large flowers of remarkably clear colors, including new striped salmon and blush shades. Petals beautifully crumpled. Pkt. 5c; ¼ oz. 15c; oz. 50c.

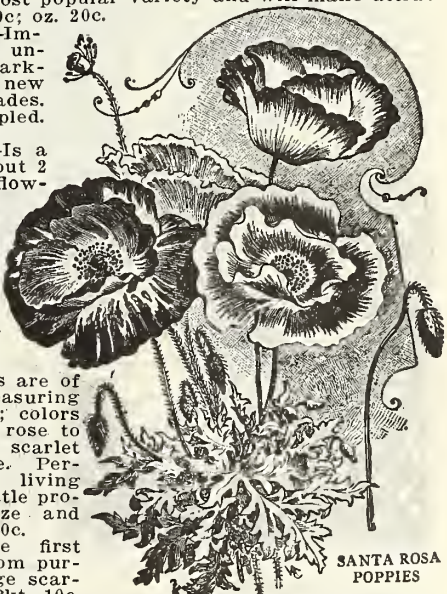
**PAEONY FLOWERED.**—Is a robust variety growing about 2 ft. high; bears very large flowers, round, smooth, double, and of exceeding brilliancy. Mixed colors. Pkt. 5c.

**ANNUAL VARIETIES MIXED.**—Single and double. Pkt. 5c; ¼ oz. 10c; oz. 20c.

**PERENNIAL POPPIES ORIENTAL HYBRIDS.**

For brilliancy of color, nothing to equal these Oriental Poppies. The flowers are of enormous size, often measuring over 6 inches in diameter; colors range from soft flesh and rose to the most brilliant dazzling scarlet and richest maroon purple. Perfectly hardy perennials, living through winter with but little protection, increasing in size and beauty every year. Pkt. 10c.

**ICELAND.**—Flowers the first year from seed. Colors from purest white to deepest orange scarlet; delicious fragrance. Pkt. 10c.





JAPANESE MAIZE  
STRIPED

## RAINBOW CORN

(Striped Japanese Maize.)—Offered as a novelty by some seedsmen. An ornamental foliage plant of rapid growth, giving immediate effect, and attractive in any garden. Grows 5 to 6 feet high and has alternate foliage, the leaves being very long and 2 to 3 inches wide. Variegation does not begin to show until the fourth or fifth leaf, when leaves become striped with broad bands of white, changing soon to narrow stripes of alternate clear white and brightest green, occasionally showing faint tinges of pink or rose color at the edges. The leaves are waxy and gracefully recurved. Desirable for groups or ribbon beds, or back border to a lawn. Illustration which is shown herewith does not do it justice. Pkt. 5c, oz. 15c.

## FAIRY ROSES

These remarkably beautiful little roses are very easily grown from seed. The roses are only about an inch across, usually semi-double, and seldom single; they are borne in large clusters and are of many colors. What is most remarkable, these Fairy Roses grow only 10 to 15 in. high, commence blooming a few weeks after seed is sown and continue from May until frost. Nice for pot plants for winter blooming. Pkt. 10c.

RICINUS CAMBODGIENSIS  
RICINUS

Castor oil plant. Stately foliage plants. Make a very handsome appearance on the lawn singly; fine for clumps or ornamental hedges. Said to keep out moles.

**CAMBODGIENSIS.**—A beautiful plant growing to a height of 8 feet, of most stately, majestic, tropical appearance. Has large palm-like leaves of darkest reddish maroon, covered with a bright bronzy luster, while the main stalk and leaf stems are ebony black. Leaves have large red veins which add to the beauty. Seed pods fiery red. Unexcelled as a decorative plant for lawn. Pkt. 5c; oz. 20c.

**ZANZIBARENSIS.**—Grows to a height of 12 to 14 feet, with leaves 2 to nearly 4 feet across. A handsome specimen plant for lawns. The different varieties included in our mixture have light bronze, changing to dark green, with reddish ribs. Pkt. 5c; oz. 15c.

**SANGUINEUS TRICOLOR.**—Blood red stalk; very attractive, especially stately in appearance, giving tropical effect in clumps, or screens. Pkt. 5c; oz. 15c.

**MIXED VARIETIES.**—Mixtures of the above and many other choice sorts. Pkt. 5c, oz. 10c.

**COMMON.**—The ordinary Castor Bean of commerce. Pkt. 5c; oz. 10c; lb. 50c.

## SALVIA

**SPLENDENS.**—One of the most brilliant of flowers; it thrives in any light, rich soil; often called flowering sage. Free bloomers. Brilliant scarlet. Is very fine. One of the most satisfactory bedding plants. Pkt. 5c; ¼ oz. 50c.

**MRS. C. N. PAGE.**—Dwarf, free blooming sort. Much earlier than Splendens; brighter color. Nothing makes such a brilliant show as a bed of Salvia; is specially fine for bordering canna beds. Introduced by us. Pkt. 15c; ¼ oz. \$1.00.

## SCABIOSA

**LARGE FLOWERED MIXED.**—One of our handsomest border plants, producing in great profusion very double flowers in a variety of shades and colors; splendid for table bouquets, etc.; rapidly becoming popular because of its striking beauty in form and color. Pkt. 5c; ¼ oz. 15c; oz. 40c.

## SENSITIVE PLANT

Very pretty and curious plant, its leaves closing when touched. Seeds start slow and it is best to start them in boxes; cover shallow and see they do not dry out; it makes a good house plant for the winter and pleases the children. Pkt. 5c.

## SHASTA DAISY

**ALASKA.**—One of the most marvelous productions in the flower line that has ever been brought to the notice of floriculturists. Can be grown out of doors by anybody where it is not cold enough to kill oak trees. Perennial, blooming better and more abundantly each season. The flowers are extremely large and graceful, averaging about 4 inches in diameter with three or more rows of petals of the purest glistening whiteness, and borne on single, stiff, wiry stems nearly 2 feet long. Pkt. 10c.



SHASTA DAISY



SCABIOSA



MRS. C. N. PAGE SALVIA

## STOCKS

Sometimes called Gilliflowers. These popular flowers are easily grown, and are so highly fragrant and of such great beauty, and have so many good qualities, that they deserve a place in every garden. Give good rich soil. They will reward good treatment with remarkable pyramids of bloom.

**PERPETUAL WHITE.**—(Princess Alice or Cut and Come Again.)—Strong growth, of fine branching habit, and if sown early will bloom from May to November. Flowers very large and pure white; the more they are cut the better they like it. Deliciously fragrant. Pkt. 10c.

**PERPETUAL MIXED.**—A mixture of colors of the continuous blooming types of perpetual stocks. Sown in March or April they begin flowering in July and continue until frost. Especially fine in September and October when other flowers are scarce. Flowers double and very fragrant. A splendid selection of seeds of the choicest strains. Pkt. 10c.

**LARGE FLOWERING DWARF GERMAN.**—Most popular flower with our German customers. Our mixture contains a great variety of colors. Pkt. 5c; ¼ oz. 35c; oz. \$1.00.



PERPETUAL WHITE STOCKS



# ORCHID FLOWERED SWEET PEAS

This is the latest and most lovely type of sweet peas, originating in England a few years ago with the original variety now called Countess Spencer, and which have developed new colors and markings each succeeding season so that we now have quite a range of color in this type, though not quite so varied or brilliant as the grandiflora or giant-flowered type which we offer on the next page. The distinguishing characteristics of the Spencer type is the wavy, orchid-like appearance of the blossoms. They are stronger, more robust in growth, with extra large flowers of exquisite, delicate beauty. We offer only a few of the many varieties in existence, choosing those which have become fixed in form and color and which will reproduce without deviation. It will be noted, however, that with only a few varieties we offer you a beautiful display of varied colors. We have in our selections of the Spencer varieties followed our rule of accepting only such as will give satisfactory results, believing it to be better to offer a few chosen sorts, than an indiscriminate list for the sake of following a fad, or introducing a "novelty." Crops of sweet peas all over the world are short and because of failure last year there is not any prospect of low values for some time to come. Our prices should really be much higher. We will, however, protect our customers so long as our stock lasts.

**KING EDWARD SPENCER.**—A bright and most attractive flower. Color of wings and standard carmine scarlet, with reverse of wings a rosy carmine, make a rich and strikingly handsome blossom. The wings are unusually large

and give the flower immense size. When to the bright color and large size are added the grace of frilled, waved and crinkled appearance the combination produced is most beautiful. Easily the brightest and most attractive of the new Spencer class, and a blossom of unequalled beauty. Sturdy and vigorous grower, producing three and four fine flowers on each stem. Pkt. 10c, oz. 35c,  $\frac{1}{4}$  lb. \$1.25.

**OTHELLO SPENCER.**—In color is similar to the Othello of the large-flowered type, but has the true Spencer form and will appeal to lovers of dark colored blossoms, and cannot fail to attract the eye in any collection of sweet peas. Stems are long, strong, and carry three or four fine blossoms of deep, rich maroon. A strong, vigorous grower. Pkt. 10c, oz. 35c,  $\frac{1}{4}$  lb. \$1.25.

**WHITE SPENCER.**—(See illustration on this page.)—One of the finest types of the Spencer class. Flowers deeply waved and curled. Color pure white, form and color producing an effect altogether lovely. Very vigorous and strong, with stiff, upright stems bearing three or four blossoms on each. Of great substance and retain their freshness and purity after being cut. Pkt. 10c, oz. 30c,  $\frac{1}{4}$  lb. \$1.00.

**PRIMROSE SPENCER.**—This is a very fine, large blossom of rich, deep cream or primrose yellow throughout; both standard and wings being of solid color without trace of shading. Is undoubtedly the richest coloring and finest quality of primrose shade. Will please any lover of delicate and dainty flowers. Equally as finely waved as the other Spencers and of strong, robust character. Pkt. 10c, oz. 35c,  $\frac{1}{4}$  lb. \$1.25.

**FLORENCE MORSE SPENCER.**—This flower is a very delicate rose color, shaded a little darker pink at the edges. It is one of the best of the Spencer type, having large, open, wavy flowers, borne four on the stem, which are quite long. It is very similar to Countess Spencer except in the color, which is of lighter shade. It fully equals the older sort in splendid qualities. Pkt. 10c, oz. 30c,  $\frac{1}{4}$  lb. \$1.00.

**CAPTAIN OF THE BLUES SPENCER.**—A name strikingly appropriate for this lovely flower. Standard is purple and wings are bright blue, petals finely frilled and waving, and the blossom is very large, even for the Spencer class. A very desirable shade for color effect and a very satisfactory grower as to vigor and profusion of bloom. Is easily a favorite among lovers of sweet peas because of its many good qualities. Pkt. 10c, oz. 40c,  $\frac{1}{4}$  lb. \$1.50.

**COUNTESS SPENCER.**—This is the original Spencer. It is truly a gigantic variety of finest form and coloring. The standard and wings are broad and well spread, beautifully waved and frilled, and sometimes fully two inches across.

The coloring is a silvery white, suffused with soft rose-pink, which deepens at the outer edges and becomes still richer and more heavily suffused in cool weather. In size, form and coloring Countess Spencer is simply exquisite and beyond the power of words to describe. Pkt. 10c, oz. 35c;  $\frac{1}{4}$  lb. \$1.25.

## Spencer Collection

Seven Packets,  
Seven Colors,

50 Cents Postpaid.

One packet of each of the choicest Spencers, as named and described on this page:

King Edward  
Othello  
White Spencer  
Primrose  
Countess Spencer  
Florence Morse  
Helen Lewis

One packet of each for 50c.

One ounce of each for \$1.50.

**HELEN LEWIS.**—(Of Spencer type.)—Standard is crimson orange with orange rose wings. A striking shade and the flower is very large, of open form with wavy edges. Pkt. 10c, oz. 30c,  $\frac{1}{4}$  lb. \$1.00.

**SPENCER MIXED.**—This is not in any sense an inferior stock but is a choice mixture of the Spencer types and varieties. This mixture has been specially and carefully grown by our expert growers from careful planting to secure a wide range of color, embracing many sorts not named in our list. By growing in this manner we are in position to give our customers a chance to secure the Spencer type in varied colors at a reasonable cost. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 70c, lb. \$2.50.

**GLADYS UNWIN.**—The Unwin type differs from the Spencer class in that the blossoms are not quite so large. The petals are marked and fluted as in the parent type, and the flower is borne on strong upright stems, while in texture and beauty they are unsurpassed. This variety is a light, clear pink in color, very dainty and charming. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c.

**NORA UNWIN.**—Clear, pure white of the semi-Spencer type. It grows very large open flowers with wavy edges. One of the finest white sweet peas now in cultivation. Flowers are borne generally three on a stem, and are of good substance and a finely effective flower. Comes true from seed. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c.

**E. J. CASTLE.**—A flower of exceeding delicacy and beauty. The color is a rich, carmine-rose with salmon shading in the standard. This rich color with the bold, wavy standard of the Unwin type makes a most striking effect, especially in artificial light. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c.



WHITE SPENCER SWEET PEAS

GROW YOUR SWEET PEAS ON WIRE TRELLIS OR FOUR-FOOT POULTRY NETTING. IT AFFORDS THE BEST SUPPORT.



# GIANT FLOWERED SWEET PEAS

The sweet peas here offered are of the great-flowered or grandiflora class, and are grown for us by the best specialists in America. The stocks from which they are produced are not surpassed by anyone, and we know from the reported experience of our friends that the results from planting our sweet peas are most satisfactory. We ask only to be judged by results and solicit your orders with full confidence that you will be pleased. There is a reason. We have discarded all poor and inferior sorts and offer what we know to be the cream of the list, chosen from personal inspection of more than 200 varieties.

**IMPERIAL MIXED.**—Sixty of best sorts carefully selected so as to get the proper proportion of each color in assortment. Makes the choicest mixture ever offered. Illustration shows bunch of various colors and we are sure our customers will be pleased with them. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.25.

**CALIFORNIA GIANTS.**—Tourists from the east are always greatly surprised and delighted with the Sweet Peas which bloom so freely in California. One of the best growers who has been growing Sweet Peas for us during the past twelve years and who devotes about fifty acres annually to their culture, has, during the past few years, been selecting seed from the specially large flowers and we now offer it in a splendid mixture. No matter what other flowers you grow, give these a trial. Pkt. 5c, oz. 15c, ¼ lb. 45c.

**NEW DOUBLE SWEET PEAS.**—By hybridizing and selection, the new double-flowered Sweet Peas have been produced and they are not only beautiful but the flower is quite lasting. About half of the plants from this seed produce flowers which are double and semi-double. Our mixture contains all the best varieties yet brought out, white, rose, crimson, maroon, lavender, striped, etc. Try them. Pkt. 10c, oz. 25c, ¼ lb. 75c.

**PERFECTED MIXED.**—Of graceful form and charming color, exquisite fragrance and simple loveliness. This mixture contains many choice new varieties and some old favorites. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.

**FINE MIXED.**—A nice mixture; very low price. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

## Twenty Choice Named Varieties

**AMERICA.**—(No. 9.)—Clear scarlet on a white ground. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**AURORA.**—(No. 6.)—Extra large flowers, are flaked and striped bright salmon on white ground. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**BLACK KNIGHT.**—Rich glossy blackish maroon. Immense bold, attractive flowers borne in greatest profusion. Pkt. 5c, oz. 10c, ¼ lb. 30c.

**DOROTHY ECKFORD.**—(No. 7.)—The largest flowered white variety. Great bloomer. Pkt. 5c, oz. 15c, ¼ lb. 45c.

**EARLIEST OF ALL.**—Very early; a bright pink with white wings. Pkt. 5c, oz. 15c, ¼ lb. 45c.

**EXTRA EARLY BLANCHE FERRY.**—Earliest of all. A beautiful light rose and white. Delicately handsome. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**KING EDWARD VII.**—(No. 11.)—A true giant-flowered variety; brighter than either Mars or Salopian, in fact, the best dark red in existence. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**LADY GRISEL HAMILTON.**—(No. 8.)—Light lavender with azure blue wings. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**LOVELY.**—(No. 2.)—The most beautiful shades of soft shell-pink, shading to faint rose at outer edges. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**MRS. WALTER WRIGHT.**—Of pinkish cream, changing to red-dish purple; large. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**MRS. DUGDALE.**—(No. 10.)—Standard rose, the wings primrose shaded and splashed rose. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**MONT BLANC.**—Large white flowers, free blooming and the earliest of all whites. Pkt. 5c, oz. 15c, ¼ lb. 45c.

**MAID OF HONOR.**—(No. 3.)—Light blue on a white ground, edged with deep violet. Pkt. 5c, oz. 15c, ¼ lb. 45c.

**MRS. KENYON.**—A decided novelty in Sweet Peas, being a very pretty large-flowered sort, of a handsome primrose or yellow color. You should have it if you want an attractive new color in your mixture. Pkt. 5c, oz. 15c, ¼ lb. 45c.

**NAVY BLUE.**—(No. 1.)—A great novelty; the darkest and truest of any variety. Free bloomer. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**OTHELLO.**—A beautiful dark brown chocolate red self-colored. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**PRINCE OF WALES.**—(No. 5.)—A bright, self-colored, deep rose flower of grand size and beautifully hooded form; frequently four on a stem. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**PRIMA DONNA.**—A soft shade bright rose-pink, with deeper coloring in center of standard and inner portion of wings. Pkt. 5c, oz. 10c, ¼ lb. 35c.

**RAMONA.**—(No. 4.)—Flower creamy white and striped and flaked bluish pink. Pkt. 5c, oz. 15c, ¼ lb. 45c.

**ROYAL ROSE.**—Beautiful clear rose. Pkt. 5c, oz. 15c, ¼ lb. 45c.

Circular how to grow Sweet Peas mailed free on request.

**CUPID MIXED.**—Dwarf growth. Flowers are pretty and freely produced. Mixed colors. Pkt. 5c, oz. 15c, ¼ lb. 45c.

**BUSH VARIETIES MIXED.**—Of distinct upright growth, forming a bush instead of climbing; many colors. Pkt. 10c, oz. 25c, ¼ lb. 75c.

**PERENNIAL MIXED.**—See page 76. Pkt. 10c, oz. 30c.





### SWEET WILLIAM

**SINGLE MIXED.**—Hardy plants one foot high, of extreme richness and variety of color, and deliciously sweet-scented; for clumps or borders unsurpassed. Our mixture is the large flowered and contains beautiful colors and markings. Pkt. 5c; ¼ oz. 10c; oz. 25c.

**DOUBLE MIXED.**—Grows same as preceding, but the florets are densely double and full centered. While beautiful, are not as popular as single-flowered. Pkt. 5c; ¼ oz. 20c; oz. 60c.

### VIOLA

**ODORATA.**—The sweet violet so generally popular. All colors mixed; seeds start slowly. Pkt. 10c.

### ZINNIA

Strong growing, hardy and elegant plants, rivaling the dahlia in size and doubleness, while the colors are bright and varied and range from pure white to deep purplish crimson. Fine for hedges, beds or borders.

**ROBUSTA GRANDIFLORA.**—Given its name because of strong growth and large flowers. Grows 3 ft. high and produces flowers 5 in. across. In separate colors: white, yellow, orange, pink, scarlet crimson; or in mixed colors if preferred. Pkt. 10c; ¼ oz. 25c; oz. 60c.

One pkt. each six separate colors of *Grandiflora Zinnia* for 40c.

**SPLENDOR.**—This splendid strain of *Zinnia* is grown on our Altoona farms with special care. The finest colors and most splendid blooms and plants we have seen. Pkt. 10c; ¼ oz. 25c; oz. 60c.

**NEW ZEBRA.**—Beautifully and brilliantly striped with rich colors. There are always some plants which do not produce striped flowers. Very handsome. All colors mixed. Pkt. 5c.

**FINEST DOUBLE MIXED.**—Pkt. 5c; ¼ oz. 15c; oz. 50c.

**CURLED AND CRESTED.**—A most unique and charming sort with petals oddly curled and crested in fantastic contortions and graceful forms. Flowers are large, double, and peculiar shape of petal relieves the flower from stiffness. Many colors. Pkt. 5c.

**PIGMY OR LILIPUT.**—The acme of beauty and perfection in *Zinnias*. Plants are small and of bushy growth, each one bearing scores of beautiful little blossoms of most perfect shape and brilliant colors, from pure white to very dark orange purple, crimson and vermilion. They are indeed gems. Mixed colors. Pkt. 10c.



NEW CENTURY MAMMOTH VERBENA



PIGMY ZINNIA

## SUNFLOWER

Some varieties of this well known plant are very ornamental, and effective in shrubby borders or as screens.

**GLOBE OF GOLD.**—Dwarf, well branched plant growing about 3 feet high, each of its numerous branches carrying a medium sized, densely double, globe-shaped flower of rich, deep, golden yellow color, being veritable globes of gold. The most densely double of any sunflower. Easily grown. Handsome, symmetrical, effective on lawns or garden. Pkt. 5c; oz. 15c.

**PILLAR OF GOLD.**—A novelty which originated on our own farms. It is a beautiful new double sunflower, growing about 4 feet high. Flowers borne on very short branching stems and are held closely to the main stalk, in such profusion that when in full bloom very little of the foliage is noticeable and at a short distance it seems a pillar of bright golden yellow. It is, in our opinion, the best decorative sunflower yet produced, and if planted in masses or rows will draw attention by the flaming glow of color. Pkt. 10c; oz. 25c.

**EXCELSIOR BRANCHING.**—This new plant, known as *H. Cucumerifolius Grandiflorus*, has a single flower about 5 inches across producing a pyramid of bloom. Pkt. 5c.

**SILVER LEAVED.**—Few would imagine it a sunflower. Grows 3 or 4 feet high, forming a perfect pyramid. Leaves are long and densely covered with long white hairs which give it a peculiar shining, silvery appearance. Flowers golden yellow, 3 to 4 in. across, small, dark brown centers. Pkt. 5c.

**BABY.**—(*Helianthus Perkeo*).—Is less than two feet high, loaded at all times with lovely *Cosmos*-like blossoms, of perfect shape and wide spreading petals. Rich, deep yellow with black center. Pkt. 5c.

**PEERLESS MIXED.**—A splendid assortment of fifteen of the best varieties grown together on our grounds. Includes some both curious and desirable. Pkt. 5c; oz. 15c.

**MAMMOTH RUSSIAN.**—Largest of all, showy and most profitable to grow for feeding purposes. Oz. pkt. 5c; lb. 25c.

**WHITE BEAUTY.**—A sunflower growing as large as the Mammoth Russian; seeds clear paper white. Very productive of seed. Also listed in farm seed department. Pkt. 5c; oz. 10c.



PILLAR OF GOLD  
SUNFLOWER

## TORENIA

**FOURNIERI.**—These are beautiful free flowering trailing plants, well suited for baskets, vases, and in moist situations out of doors. A handsome plant; not hardy. Pkt. 10c.

## VERBENA

Deservedly a universal favorite. A constant bloomer, and if grown from seed has a sweet fragrance. Plant in boxes, or under glass in March, and transplant when a few inches high. In this way they bloom early.

### BANNER VERBENA COLLECTION

One packet each of four colors. White, Pink, Red, and Blue, of the Mammoth type, illustrated in colors on outside back catalogue cover, postpaid for 35c.

**NEW CENTURY MAMMOTH.**—The most beautiful colors, largest flowers and largest truss, and will please everyone. Well grown flower truss measures over 9 inches in circumference while single florets are as large as a twenty-five cent piece; more vigorous growing than the ordinary sort. Pkt. 10c; ¼ oz. 35c; oz. \$1.00.

**CANDIDISSIMA.**—Large trusses of pure white flowers; beautiful. Pkt. 5c; ¼ oz. 25c; oz. 60c.

**BLUE MIXED.**—Desirable. Blue, purple and lavender sorts. Pkt. 5c; ¼ oz. 25c; oz. 60c.

**DEFIANCE.**—A true scarlet; large and extra fine. Pkt. 10c; ¼ oz. 35c; oz. \$1.00.

**CHOICE MIXED.**—From the finest German collection of named sorts. Pkt. 5c; ¼ oz. 20c; oz. 60c.

### ERINOIDES.—(Moss Verbena)

—A beautiful variety which produces a mass of moss like foliage. It is low growing, spreading over the ground. The blossoms are purplish blue and are borne well above the foliage. Free flowering from June until frost. Pkt. 10c.

**LEMON.**—(*Aloysia Citriodora*).—The popular plant prized for its sweet-scented leaves which retain their fragrance when dried and are therefore doubly useful. Pkt. 10c.

## WALLFLOWER

Greatly prized for their exquisite fragrance. Grow in long, brilliant colored spikes of flowers. Plants removed to pots in autumn will produce abundance of delightfully fragrant flowers of many colors.

**DOUBLE VARIETIES MIXED.**—Pkt. 10c.

**SINGLE MIXED.**—Best single and semi-double sorts. Pkt. 5c.

**EARLY FLOWERING MIXED.**—Flowers early the first season. Per pkt. 5c.

THERE ARE SPLENDID POSSIBILITIES IN OUR NEW VARIETIES OF SUNFLOWER FOR MASSING IN CLUMPS FOR SCREENS.



## ORNAMENTAL CLIMBERS

Nothing adds more to the homelike appearance of a place than to have the pleasant shade of vines over the porches, and climbers on trellises, trees, fences, and outbuildings. We list them together so that our customers can make selection. Notice also the list of hardy permanent vines on pages 110 and 111.

**ADLUMIA CIRRHOSA.**—Has a striking resemblance to foliage of the Maiden Hair fern. It is a hardy biennial climber, growing readily from seed; foliage feathery, dainty and picturesque; it blooms the second year; pink and white flowers. Plant in a cool, moist place. Pkt. 10c, ¼ oz. 25c, oz. 75c.

**AMPELOPSIS VEITCHII, or Boston Ivy.**—Described with Hardy Vines. Pkt. 5c.  
**BALLOON VINE.**—A pretty, rapid growing climber, succeeding best in a warm situation. Flowers white, followed by balloon-like seed pods. Pkt. 5c, oz. 20c.

**BRYANOPSIS.**—Beautiful summer climber with yellow flowers, followed by pretty cherry-like green fruits, which change to bright scarlet, marbled with white. Pkt. 5c.

**COBOEA SCANDENS.**—A magnificent climber of rapid growth and beautiful blue flowers. The seed should be planted edgewise. Pkt. 10c.

**CANARY BIRD FLOWER.**—One of the most beautiful climbers, with delicate, finely-cut foliage and curious bright yellow flowers, resembling the canary bird in shape and color. Pkt. 5c, oz. 15c.

**CYPRESS VINE.**—A beautiful rapid climber with delicate dark green foliage, and an abundance of star-shaped scarlet and white blossoms.

**Scarlet.**—Very bright. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**White.**—Pretty contrast with scarlet. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**Mixed Colors.**—Above mixed. Pkt. 5c; oz. 25c.

**New Ivy Leaved.**—Entirely distinct both in flowers and foliage. The ivy-like leaves make a dense screen from which the pretty orange-scarlet flowers stand out in countless numbers. Pkt. 5c.

**DOLICHOS.**—(Hyacinth Bean.)—**Mixed Colors.**—A rapid growing annual climber flowering freely in clusters followed by ornamental pods. Fine for arbors or porches. Pkt. 5c; oz. 15c.

**Daylight.**—Pure white flowers standing out boldly from the rich foliage. Pkt. 5c; oz. 20c.

**Darkness.**—A good companion for above. Both stems and under side of its leaves purplish red. Pea-like flowers; it blooms early. Pkt. 5c; oz. 20c.

**GOURDS.**—**Ornamental Mixed.**—A mixture of the odd-shaped and fancy-colored sorts. Contains the most popular and handsome foreign varieties. Pkt. 5c; oz. 25c.

**JONAH'S GOURD.**—Grows with wonderful rapidity, useful for covering old trees, walls, porches, outbuildings, etc. Leaves quite large, flowers pure white, 2 or 3 inches in diameter. Fruits of great length, resembling well-known Hercules Club. Pkt. 12 seeds 10c; 3 for 25c.

**HUMULUS.**—(Hop.)—**New Japanese Variegated.**—A handsome and distinct climbing vine, valuable for trellis and high places. Leaves are strikingly marked and blotched silvery white tinged yellow. Pkt. 5c.

**KUDZU VINE.**—**Jack and the Beanstalk.**—Hardy, very rapid growing vine which dies at the roots after frost, but which grows to forty feet in a season when established. Large foliage and clusters of pea-shaped purple flowers. Grows readily from seed. Pkt. 10c.

**MAURANDIA.**—Delicate climber for windows or conservatories. Admirable to hang from vases; also desirable for outdoor plantings where slender, graceful vines are wanted. Mixed colors. Pkt. 10c.

**MORMORDICA.**—**Mixed.**—Commonly known as Balsam apple and Balsam Pear. Foliage ornamental, and fruits are golden yellow, opening when ripe, showing a bright carmine center. Fine for trailing over stumps, etc. Pkt. 5c; oz. 25c.

**MAMMOTH PASSION FLOWER.**—Sow the seed early and if well cared for and seasons are favorable, vines will put forth magnificent blossoms the first year, of pink, blue and white, very large and showy. A very desirable vine for trailing over porch or trellis; also quite desirable for planting over mounds and in the cemetery. Pkt. 10c.

**CLIMBING NASTURTIUM.**—Description and prices on different varieties on page 73.

**MOONFLOWER.**—**White.**—(Ipomoea Grandiflora.)—One of the grandest summer climbers, growing 25 to 40 feet high, and covered nightly and on dull days with beautiful flowers from 5 to 6 in. in diameter. Fragrant. Pkt. of 5 seeds 10c; ½ oz. 25c.

**Blue.**—(Ipomoea Leari.)—Distinct and charming novelty, in striking contrast to the true White Moonflower. Color exquisite, clear, satiny blue; well defined crimson bars. Pkt. 10c; ½ oz. 50c.

**RUNNER BEAN.**—**Scarlet Runner.**—A valuable climbing bean, having bright scarlet flowers and pods; very showy as a climber, also valuable for table use. Pkt. 5c; ¼ lb. 10c; lb. 30c.

**Arabian Runner.**—A beautiful variety of the above with striped scarlet and white flowers. Pkt. 5c; ¼ lb. 10c; lb. 30c.

**SMILAX.**—Considered the most beautiful of all vines for indoor growing and specially valued by florists for decorating and floral work all times of the year. The seeds start slowly and should be planted in loose, rich soil, and kept moist and warm. Pkt. 5c.

**THUNBERGIA.**—**Mixed Colors.**—(Black Eyed Susan.)—Beautiful rapid growing climbers for vases, trellises or rustic work. Buff, orange, white, etc. Pkt. 5c.



IMPERIAL JAPANESE  
MORNING GLORIES

**MORNING GLORIES.**—**Imperial Japanese.**—Remarkable for the large size and exquisite new colors of the flowers, with magnificent foliage. Vines grow quickly to a height of twelve to twenty feet. Flowers are of gigantic size, sometimes measuring four or five inches across. Colors, shading and markings really wonders of nature. Double and single mixed. Pkt. 5c; oz. 15c.

**Fringed Japanese.**—Odd yet attractive appearance. Similar in size and coloring to the Imperial strain and delicately beautiful because of waved and curled borders of blossoms. Pkt. 10c; oz. 35c.

**New Double Flowering.**—Of rapid growth and flowers very freely. They are white with a slight spot of red or blue at base of larger petals. About 8 per cent of seedlings will reproduce themselves true from seed. Pkt. 10c.

**Improved Climbing.**—A great improvement on the old climbing morning glory. Large size; great variety. Pkt. 5c; oz. 20c; ¼ lb. 60c.

**Fine Mixed.**—Mixture of odd sorts. Pkt. 5c; oz. 10c; ¼ lb. 25c.

**Brazilian.**—(Ipomoea Setosa.)—One of the grandest and most luxuriant plants ever grown; very showy and graceful, with rose-colored flowers from 3 to 4 inches in diameter, and a huge leaf 10 to 12 inches across. Pkt. 10c; oz. 25c.

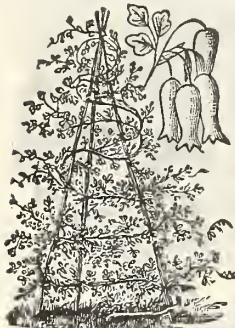
**PERENNIAL SWEET PEAS.**—(Lathyrus.)—A very popular perennial variety and it should be more generally used. Mixed colors. Blooms second year. Pkt. 10c; oz. 30c.



WILD CUCUMBER

A well known vine common in many sections, and the quickest climber known for covering verandas, old trees and houses, trellises, etc., never suffering from the heat, but retaining its fresh and lively green color; never infested with insects, very profuse in bloom. It reaches height of 30 feet in one season. It is covered with clusters of white, sweet-scented flowers, followed by an abundance of ornamental prickly seed pods. It will reproduce itself from self-sown seed every year. Pkt. 5c; oz. 15c.

**WISTARIA.**—One of the most popular hardy vines, climbing to a height of 50 feet or more. It is perennial and easily grown from seed. Of rapid growth, bearing in spring immense panicles of purple flowers in great profusion. Pkt. 10c.



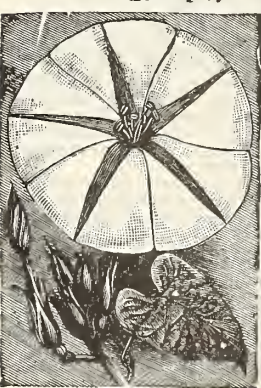
ADLUMIA



CANARY-BIRD FLOWER



GOURDS



MOONFLOWER



## EVERLASTINGS AND GRASSES

These are very attractive for winter decoration as they are of rich brilliant colors and are fine for winter bouquets. Cut when in full bloom, tie in small bunches and hang, heads downward, to dry.

**AMOBIMUM.**—*Alatum Grandiflorum.*—A pretty everlasting, double white flower. Pkt. 5c.

**ACROCLINIUM.**—*Mixed Colors.*—An everlasting of fine form, growing about two feet high and producing large double flowers which when dried retain their form and beauty for a long time. Shades of pink to white. Pkt. 5c; oz. 20c.

**GLOBE AMARANTH.**—(*Gomphrena*)—*Mixed Colors.* Popularly known as "Bachelor Buttons." Handsome, globular heads of flowers; if cut when well matured, retain their beauty during winter. Colors purple, white, flesh, orange and striped. Pkt. 5c; ¼ oz. 10c; oz. 25c.

**GOLD AND SILVER FLOWER.**—(*Polycalma*)—Silver white flower with golden center. Illustrated and more fully described on page 66. Pkt. 10c.

**HELICHRYSUM.**—*Monster Mixed.*—A very pretty and popular hardy annual bearing large double flowers of different shades and colors, ranging from white to yellow, rich red, scarlet. Best everlastings, as they retain their form and color for many months, and



GLOBE AMARANTH.



MONSTER HELICHRYSUM.

are particularly useful in winter decoration. Pkt. 5c; ¼ oz. 15c; oz. 50c.

**JOB'S TEARS.**—An ornamental grass known botanically as *Coix Lachryma*. Grows 2 to 3 feet high, with broad, corn-like leaves. Pkt. 5c; oz. 15c.

**JOB'S TEARS FOR FANCY WORK.**—We also offer choice seeds of glossy pearl color, a special variety, which are used for necklaces, basket and raffia work, and in strings for portieres. Not sold for germination. Oz. 10c; ¼ lb. 35c; lb. 75c; 5 lbs. by express, not prepaid, for \$2.50.

**PENNISTEUM.**—*Rueppellianum.*—A handsome grass commonly called Purple Fountain Grass. Pkt. 10c.

**RHODANTHE.**—*Mixed Colors.*—One of the finest and most beautiful of flowers; are of various colors. For winter bouquets the blossoms should be gathered before fully expanded, and if dried in the shade will retain their brilliancy for years. Pkt. 5c.

**STATICE.**—(*Sea Lavender*)—Immense panicles of small blue flowers sometimes more than a foot in diameter. Grows 12 to 18 in. high with thick, heavy foliage. Flowers are very lasting if properly dried and are very striking in winter bouquets. Pkt. 10c.

**XERANTHEMUM.**—Free flowering and easily grown, making a handsome bed. All kinds mixed. Pkt. 10c.



RHODANTHE.



MIXED GRASSES.

## SPECIAL MIXTURES IN FLOWER SEEDS

Carefully Prepared from our own Formulas for Splendid Effects in the Informal Garden

Many persons derive pleasure from watching the growth of a varied bed of flowers, entirely out of the usual trim garden style, while others desire a much more extended collection than their means will permit. To both of these classes the following special mixtures will appeal:

**MIXTURE OF FRAGRANT ANNUALS.**—Carefully made up from seeds of fragrant flowers only. A bed of these will give rich perfume throughout the day and evening while some are also suitable for cutting. Pkt. 10c; ¼ oz. 25c; oz. 75c.

**MIXTURE OF CLIMBERS.**—This is a liberally filled packet of seed of many beautiful annual climbers suitable for growing together. Pkt. 10c; ¼ oz. 25c; oz. 75c.

**LOW GROWING ANNUALS.**—This mixture contains seed of a great variety of low growing annuals, few of which exceed four to six inches in height, and which, sown in beds or borders, present the appearance of Turkish rugs, carpeting the ground in their wide range of colorings and forms. Pkt. 5c; ¼ oz. 15c; oz. 40c.

**FLOWERS FOR BOUQUETS.**—This mixture embraces seeds of annuals producing flowers suitable for cutting and for bouquets, nearly all of them having long stems. Planted in a section of the garden this will furnish a constant supply of cut flowers. Pkt. 10c; ¼ oz. 25c; oz. 75c.

**INTERNATIONAL NOVELTIES MIXED.**—Each year we make a grand test of floral novelties, obtaining seed therefrom from all parts of the world, and our trial fields exhibit a truly magnificent display of flowers never before grown here. A few of the new varieties did not do well with us, but they may prove valuable in other climates or on different soils; by far the larger number are valuable acquisitions which we would like our customers to try. We have saved seed of most varieties, but instead of listing them in catalogue separately at 10c to 25c per pkt., we have decided to mix them all together and offer our customers this grand assortment at the low price of 10c per pkt.; 3 for 25c.

**LAWN FLOWER MIXTURE.**—A special mixture of low growing, quick blooming flowers, very desirable for sowing with Lawn Grass Seed in the spring. They come up quickly, afford shelter

for grass seed and will bloom by the time the grass requires cutting the first time. Also desirable for sowing on an old lawn very early in the season. Pkt. 10c; oz. 25c.

**MIXED GRASSES.**—A mixture of the ornamental grasses suitable to grow in masses. Makes a striking as well as useful collection. Valuable for making up into winter bouquets. These should be cut just as they come into bloom and dried in the shade. Very useful for working up with the Everlastings into winter ornaments; they lend a grace and beauty not obtainable without them. Pkt. 5c; ¼ oz. 10c; oz. 30c.



WE PREPARE ALL OUR MIXED FLOWER SEEDS FROM CHOICE, FRESH SEEDS AND THEY WILL GIVE SATISFACTION.



## SUMMER FLOWERING BULBS

Many of the most showy, attractive, inexpensive and easiest grown of all summer and autumn flowers are contained in this important class. Few other flowers can compare with the noble and brilliant spikes of the gladiolus, the grace and elegance of the lily, the purity and sweetness of the tuberose, the majestic foliage of the canna and the wonderful markings of the Tigridia. Bulbs for spring planting require but little care and quickly make a gorgeous display, while the bulbs can be kept over winter and year after year will return a hundred fold in beauty and satisfaction the trifling expense of the original cost. For lilies and other hardy bulbs see pages 81 and 83. Bulbs are large and strong and will be sent well packed, postpaid, on receipt of price, except where noted.

### AMARYLLIS

**JOHNSONII.**—Of strong, vigorous growth, bearing from 3 to 6 brilliant red flowers on each stem. The petals are striped with white; very attractive; fragrant. Each 50c.

**FORMOSISSIMA.**—(Jacobean Lily.)—Is of extremely rich, deep velvety crimson. Free bloomer and succeeds well in pots or open ground. Each 15c, 3 for 40c; doz. \$1.25.

**ATAMASCO.**—A fine little bulb for summer blooming; bears pink flowers. Plant closely. Ea. 5c; doz. 50c.

### CALADIUM

**ESCULENTUM.**—(Elephant's Ear.)—A splendid tropical plant, growing 4 to 5 feet, with immense leaves, beautifully veined and variegated with different shades of green, often growing 3 feet long. Of easy culture. Medium sized bulbs 15c, 3 for 40c; large bulbs 25c, 3 for 60c; mammoth 40c, 3 for \$1.00.

**FANCY-LEAVED.**—These have grown very rapidly in popular favor, not only for decoration of conservatory, greenhouse and window boxes, but nearly all varieties succeed admirably planted out of doors, when the ground has become warm, in partly shaded, sheltered borders. Leaves variegated red, yellow, white, brown, green, etc. Many choice varieties, each 25c; dozen \$2.50.



A. CROZY  
FLORENCE VAUGHAN  
MAD. CROZY CANNAS

**HIAWATHA.**—Pink flower of splendid form. Dwarf habit, strong grower. Bronze foliage. Height 3 feet. Each 15c; doz. \$1.50.

**INDIANA.**—Orange, striped and dashed red; very large, fine flowers. Height 6 feet, foliage green. Each 15c; doz. \$1.50.

**KING HUMBERT.**—One of the grandest ever offered. Flowers extra large. Bright orange scarlet streaked with crimson. Foliage is bronze with brownish green stripes, large, thick and leathery. Strong grower; height 4 feet. Each 20c; dozen \$2.00.

**LOUISIANA.**—A very fine specimen of the orchid flowered type. Color vivid scarlet. A strong grower; height 6 feet. Foliage green. Each 15c; dozen \$1.50.

**MADAM CROZY.**—One of the most popular sorts. A fine grower and the contrasting colors of the flower make it a favorite. Height 3½ feet. Green foliage; flowers vermilion red, gold bordered; a succession of flower trusses. Each 10c; dozen \$1.00.

**MARTHA WASHINGTON.**—Dwarf variety growing about 3 feet tall. Very profuse bloomer. Flowers large, and beautiful bright pink color. Each 15c; doz. \$1.50.

**MONT BLANC.**—The nearest pure white of any canna ever offered. The flowers are large and showy. Foliage green. Height 3 feet. Each 20c; dozen \$2.00.

**NEW YORK.**—Leaves very large and broad, dark purple color. Flower scarlet. A splendid sort. Each 5c; dozen \$1.50.

**PENNSYLVANIA.**—One of the best orchid flowered sorts. Foliage green, flowers very large, bright scarlet, shaded orange; height 6 feet. Each 15c; doz. \$1.50.

**PRES. MEYER.**—Height 4½ feet. A dark foliage variety, with very large petaled flowers of cherry red. Choice variety. Each 15c; doz. \$1.50.

**SECY CHABANNE.**—A distinct shade of salmon. Flowers large, plant strong and robust; a free bloomer. Height 3 feet. Each 15c; doz. \$1.50.

**UNCLE SAM.**—Great, large flower of orange scarlet. A striking variety. Height 6 feet; green foliage. Each 15c; doz. \$1.50.

**WEST GROVE.**—Height 4½ feet. Flowers extra large, pink. Each 15c; doz. \$1.50.

**WYOMING.**—One of the most majestic flowering cannas in orchid flowering class, with a luxuriant growth of rich purple foliage. Above are borne great plumes of massive orange-colored blossoms with large rounded petals. Seven feet. Each 15c; doz. \$1.50.

**MIXED BEDDING CANNAS.**—Ea. 8c; doz. 75c. Our choice of kinds selected for harmony and contrasts.

### CONTRAST CANNA BED

A Few of the Best in a Bargain Offer.  
2 Allemania 2 Chas. Henderson  
2 Mont Blanc 2 Buttercup  
2 West Grove 2 Robusta  
Twelve of the choicest sorts, showing a fine contrast in flower and foliage.  
POSTPAID FOR \$1.25.

### UNCLE SAM CANNA COLLECTION

One each of the following choice varieties, offering a wide range in colors and types:  
America Louisiana  
California Martha Washington  
Hiawatha New York  
Indiana Pennsylvania  
TEN SUPERIOR SORTS POSTPAID FOR ONLY \$1.25.

IT IS NOT NECESSARY TO PURCHASE BULBS EACH YEAR. THEY ARE EASILY KEPT THROUGH THE WINTER SEASON.



CALADIUM ESCULENTUM.



FANCY LEAVED CALADIUMS

## GLORIOUS CANNAS

These are now generally considered the most showy and effective bedding plants. They have tropical appearing foliage and showy flowers, some of which are truly orchid-like.

**A. CROZY.**—Height 4 feet. Green foliage. Crimson scarlet, with broad gold border. Has always been popular as it is one of the most striking among the long list of cannas. See illustration. Each 15c; dozen \$1.50.

**ALLEMANIA.**—Foliage pea green and very wide; flowers are orange scarlet lemon edge. One of the best for planting alone. Flower and foliage both attractive and distinct. Height 4 feet. Each 15c; dozen \$1.25.

**AMERICA.**—Height 4 feet. One of the handsomest of the bronzed leaved varieties. Leaves show some tinting of green applied in such a way that they appear as if striped. Flowers extra size, dark yellow, veined with red. Each 20c; doz. \$2.00.

**BURBANK.**—The well known Orchid Flowering Canna. The flowers are truly gigantic in size, the upper petals spreading fully 7 inches. Flower is rich canary yellow; crimson spots near center. Green foliage. Height 5 feet. Each 15c; doz. \$1.50.

**CALIFORNIA.**—Rare and handsome; color a pure rich orange gold, no other like it. Has nearly all the good qualities combined, good habit of growth, large flowers, erect head, and blooms freely; green foliage. Height 4 feet. Ea. 15c; doz. \$1.50.

**CHARLES HENDERSON.**—Four feet high. Green foliage; one of the finest bedding plants in existence; compact, vigorous growth; free bloomer; deep, rich crimson. Each 10c; dozen \$1.00.

**FLORENCE VAUGHAN.**—It is 5 feet high. Dark green foliage; yellow flowers, spotted with bright red. Is fine for bedding. See illustration above. Each 10c; dozen \$1.00.

age; yellow flowers, spotted with bright red. Is fine for bedding. See illustration above. Each 10c; dozen \$1.00.

Dwarf habit, strong grower. Bronze foliage.



BURBANK CANNA



## CINNAMON VINE

This beautiful climber possesses the rare quality of emitting from its flowers the delightful odor of cinnamon; is appropriately called the Cinnamon Vine. Perfectly hardy, the stem dying down every autumn, but growing again so rapidly as to completely cover any trellis or arbor very early in the season. With its beautiful heart-shaped leaves, clusters of delicate white flowers and delicious cinnamon odor it is most desirable. We furnish the large tubers, postpaid, for 10c; 3 for 25c; doz. 65c. We can supply small bulbets from which the large tubers may be grown in one season at 10c per doz.; 100 for 60c.

## STATELY DAHLIAS

The Dahlia is one of the showiest of all autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until stopped by frost. Especially fine for cut flowers. They have been greatly improved and we now grow acres of them to supply the demand. Out of the many hundred varieties we have selected the following as of special value. For best results start roots early in the house. Late in the season, when dry roots become exhausted, we then fill orders with strong rooted pot plants.

### DECORATIVE DAHLIAS

Type of blooms see Nos. 1 and 2 in group picture.

**CLIFFORD W. BRUTON.**—(See cut No. 1.)—A beautiful dahlia of greatest merit. Extra large flowers of bright golden yellow, perfect in shape and form; very early bloomer. Each 15c, 3 for 40c.

**DELICE.**—A new dahlia, greatly prized by specialists because it is a new shade—an exquisite glowing rose pink—a soft yet brilliant shade. Admirable in vigor and habit of growth. Ea. 30c, 3 for 75c.

**FLORA.**—Listed by some growers among cactus flowered sorts. It is an ideal white dahlia. It produces fine, large, heavy flowers on strong, stiff stems, making it valuable for cutting. Ea. 20c, 3 for 50c.

**JACK ROSE.**—So named because the color is brilliant crimson red, almost exactly like the General Jacqueminot rose. Popular because of brilliant color which shows to advantage in any collection. Each 15c, 3 for 40c.

**SYLVIA.**—(See cut No. 2.)—A very lovely shade of mauve pink, shading to white in the center. A fine flower on a vigorous plant. One of the best decorative dahlias of lighter shade. Ea. 15c, 3 for 40c.

**SOUVENIR DE GUSTAV DOAZON.**—Giant flower, strong plant. Ordinarily 6 inches and sometimes fully 9 inches across. Blooms in abundance. Color bright, dazzling red. Each 25c, 3 for 60c.

### SHOW DAHLIAS

Type of blooms, Nos. 3, 4 and 5 of group picture.

**A. D. LIVONI.**—(See cut No. 4.)—Also offered under the name Ethel Vick. A very early blooming variety of delicate shell pink. Very handsome and the best of the pink show sorts. Each 15c, 3 for 40c.

**ARABELLA.**—A beautiful flower of primrose or light yellow, tipped rose and lavender. A lovely combination, bright, yet modest. Fine, strong plant. Each 15c, 3 for 50c.

**BON TON.**—(See cut No. 3.)—A rich, deep garnet red flower of compact form, beautiful in every situation. One of the best solid colored blooms. Each 15c, 3 for 40c.

**GRAND DUKE ALEXIS.**—Flowers 18 in. in circumference and of most beautiful form, petals are rolled up so that they overlap each other. Color is pure snow white slightly tinged with delicate pink at center. Each 25c, 3 for 65c.

**MAID OF KENT.**—(See cut No. 5.)—Richest crimson velvet. About half the petals tipped with a large spot of white. Frequently flowers are solid scarlet, but most are variegated. Each 15c, 3 for 40c.

**QUEEN VICTORIA.**—Plant a robust grower and so covered with flowers as to appear almost like a solid mass of golden yellow color. Blooms early. Each 15c, 3 for 40c.

**WHITE SWAN.**—A lovely pure white flower. Plant is a strong, vigorous grower, branching freely and flowers are borne on long stems. Each 15c, 3 for 40c.

### POMPON DAHLIAS

The small flowered type so popular for bouquets and cut flowers. We offer sufficient range of color to afford pleasing effects in vases, etc.

**AMBER QUEEN.**—An extra free bloomer, clear amber shaded apricot; fine. Each 15c, 3 for 40c.

**DARKNESS.**—Dark maroon. Furnishes the heavy color for contrast. Strong grower. Each 15c, 3 for 40c.

**HIGHLAND MARY.**—A beautiful little flower of pink and white. Dainty and desirable, alone or in mixed bouquets. Each 15c, 3 for 40c.

**RED INDIAN.**—A bright, deep, coral red. Produces splendid flowers in profusion. Each 30c, 3 for 50c.

**SUNBEAM.**—A crimson scarlet. Splendid as a solid color decoration any time or place. Ea. 15c, 3 for 40c.



DAHLIAS (REFER TO NUMBER IN DESCRIPTION)

### CACTUS DAHLIAS

**ALFRED MORGAN.**—A splendid variety with extra large flowers of great size. Color is rich, deep crimson. The choicest offering in strong color. All that may be desired in form of flower and vigor of growth. Each 25c, 3 for 60c.

**COUNTRESS OF LONSDALE.**—A peculiar pleasing shade of salmon pink or apricot, shading to carmine at edge of petals. Blooms freely in nearly all situations. Strong, vigorous grower. Ea. 25c, 3 for 60c.

**KREIMHILDE.**—Bright, shining pink, gradually shading to white at the center. Vigorous grower producing the flowers on perfect long stems, making it especially valuable for a cut flower. Each 20c, 3 for 50c.

**GENISTA.**—A most attractive flower. Color is deep amber, shaded gold; very bright and particularly pleasing in mixed bouquets. It will please dahlia lovers. Habit and growth excellent; blossoms unique. Ea. 20c, 3 for 50c.



CACTUS DAHLIAS

### TWENTIETH CENTURY DAHLIAS

**CARDINAL CENTURY.**—The ground color of the flower is bright cardinal red, and the bloom is particularly striking and attractive. Among single dahlias the Twentieth Century class is far ahead of any other. Each 20c, 3 for 50c.

**GOLDEN CENTURY.**—Extra large single blooms, general effect beautiful golden yellow. Markings add to the attractiveness of the flower. Splendid for vases or bouquets. Each 20c, 3 for 50c.

**FRINGED TWENTIETH CENTURY.**—Petals are fringed, presenting a distinct appearance. Color is intense rosy crimson, with white tips and white disc around the yellow center. Each 20c, 3 for 50c.

**ROSE PINK CENTURY.**—Flowers six inches and over in diameter; of a clear rose pink color; a strong grower with long, stiff stems. Fine as a cut flower and shows extra well under artificial light. Each 20c, 3 for 50c.



TWENTIETH CENTURY DAHLIAS

THE BEST OF THE DIFFERENT DAHLIA TYPES ARE OFFERED. YOU CAN EASILY FIND YOUR FAVORITE AMONG THEM.





These are a specialty with us and our fields devoted to them make a most magnificent sight each year, appearing at a distance a mass of bright colors. It is the most desirable of all bulbs and it is claimed by many who are well acquainted with their varied beauty, to be the flower of flowers.

### NAMED VARIETIES

**AMERICA**.—A splendid new variety of beautiful soft pink shade. It will delight the gladiolus grower with its large flowers and pleasing beauty. Each 5c; dozen 50c.

**AUGUSTA**.—White ground color with blue shading. Fine variety as it is very vigorous and spikes are large and fine. A very beautiful flower. Each 5c; dozen 50c.

**BERNICE**.—A popular light yellow, with buff and pink markings. Very fine. Each 5c, dozen 50c.

**BLACK'S 113**.—A beautiful large white with scarlet feather in lower petals. Each 5c, dozen 50c.

**BRENCHLEYENSIS**.—Deep vermilion scarlet. One of the brightest and most showy varieties. A few spikes of the above make a striking bouquet. Each 4c, dozen 40c.

**CANARY BIRD**.—The best yellow variety. It is a good, vigorous grower and color of the flower is pleasing and attractive. Each 10c, dozen \$1.00.

**EARLY PINK**.—Pure salmon pink. A very large, open flower, borne on spreading stalks. Each 6c, dozen 60c.

**EVALINE**.—A large, open flower of violet underlaid terra cotta. Rich and striking. Each 6c, dozen 60c.

**GRACE**.—A lovely flower of blush white, striped crimson with white throat. Very fine spikes of wide open flowers, often 10 to 15 on a stalk. Each 10c, dozen \$1.00.

**INDEPENDENCE**.—Introduced by us. Extra large size, wide open flowers and handsome salmon rose color. Strong, vigorous grower, nearly 3 feet high. Its color varies as flower grows older. Ea. 5c, dozen 50c.

**MAY**.—White flaked with crimson. A dainty flower with just enough color to make it really beautiful. Ea. 6c, doz. 60c.

**MAUDE**.—Cream yellow with rich maroon spots in lower petals. One of the best of light sorts. Ea. 5c, doz. 50c.

**MEADOWVALE**.—Pure white ground, crimson throat and stripes of pink in lower petals. A beautiful flower. Each 5c, dozen 50c.

**MRS. FRANCES KING**.—A hybrid sort of great beauty and attractiveness. The color is very pleasing light scarlet. The spike is strong, flowers large and usually a half dozen open at once. Each 5c, dozen 50c.

**NIAGARA**.—A distinct variety. Tall stalk, strong stem, vigorous; color canary and cream shadings. A splendid sort. Each 6c, dozen 60c.

**PRINCES**.—Rich crimson with deep shadings in throat, and fine large white blotches on the lower petals. The flowers are exceedingly large and fine and they bloom for a long time. This is one of the most magnificent of gladioli. Each 10c, dozen \$1.00.

**TACONIC**.—A beautiful flower of a lovely pink color, striped and flaked lighter shade, and with throat of light blush. Crimson markings on the lower petals. Each 10c, dozen \$1.00.

**VELVET KING**.—Almost solid colored flower of deep crimson. A very fine variety for bouquets or decorative effects. Each 10c, dozen \$1.00.

### GLADIOLUS COLLECTION

One choice first size bulb each of Augusta, Bernice, Evaline, Grace, May, Mrs. Frances King and Maude; 7 choice sorts, only 35c, postpaid.

### FANCY FLOWERED GLOXINIA

We know of no bulbous plant that will give such universal satisfaction as the Gloxinia. Their charming trumpet-shaped flowers are exquisitely tinted, blotched or tigered with miniature dots of violet, pink or crimson. They are of the easiest culture in pots and bloom continuously for months. We have a grand strain of Hybrid Gloxinias in mixed colors or in separate colors of crimson, rose, scarlet, violet, white, etc. The Gloxinia may be handled with success anywhere if given good, rich, light soil and a partially shady situation until well started into growth. Each 15c, dozen \$1.25.

### HYACINTHUS CANDICANS

This is a large, strong, vigorous bulb, growing a stem 3 to 4 feet high. The stems bear quantities of large, drooping flowers, ivory in color and bell-shaped, per illustration. Flowers are delicately fragrant and by planting closely a clump of these will produce a charming effect, the flowers appearing like giant snowdrops. Ea. 5c, doz. 50c. Extra large bulbs, ea. 10c, doz. \$1.

### SPECIAL GLADIOLI MIXTURES

For the benefit of such of our customers as wish a number of given tints for massing we are offering at attractive prices some of the choicest mixtures to be found in this country. . . . .

**ALTOONA MIXED**.—This is put first in our list of Gladioli because we believe it is the best mixture in existence. These bulbs are grown by us on our Altoona farm and the mixture is made mainly from the named varieties on this page and other very choice sorts which we do not list. Large bulbs each 7c, dozen 60c, 100 for \$4.00.

**SILVER TROPHY MIXED**.—Considered one of the finest of commercial mixtures. Our stock was procured from the originator and has been carefully grown, so that we can without hesitation recommend it to our friends. Each 6c, dozen 50c, 100 for \$3.00.

**FINE MIXED**.—Our own mixture containing a wide range of color; offered at a very low price and we feel sure they will prove satisfactory. First size each 4c, doz. 35c, 100 \$2.50; second size each 3c, doz. 25c, 100 for \$1.50.



GLOXINIA



HYACINTHUS CANDICANS



## BEAUTIFUL LILIES

Nothing can surpass the Lily in beauty, purity, delicacy and stately, magnificent grandeur. A few clumps planted in some place in your yard where they will not be disturbed from year to year, will reward you with abundant flowers. These varieties are, perhaps, the most popular lilies grown, being of easy cultivation, and producing large flowers of delicate beauty on strong stems. Bloom better the second year and thereafter.

**AURATUM.**—(Japanese Gold-Banded Lily.)—This is justly entitled to the name given it, "The Queen of the Lilies." The immense flowers are produced in great profusion and are deliciously fragrant. The large white petals are thickly spotted with rich chocolate crimson, and have a bright golden yellow band through the center of each. Each 20c; dozen \$1.75; extra large bulbs, each 30c; dozen \$2.75.

**SPECIOSUM RUBRUM.**—These are perhaps the most popular lilies grown, being easy of cultivation and produce large flowers of delicate beauty on strong stems; height from 2 to 4 feet. Blooms in August. Flowers are white, with a deep rosy crimson band on each petal, with deeper colored spots between. They are 5 or 6 inches in diameter, very fragrant, and have all the hardness of the Speciosum class. Each 15c; 3 for 40c.

**SPECIOSUM ALBUM.**—The finest of the pure white, hardy perennial garden lilies. Has large white flowers of great substance, beautifully recurved. Each 20c; 3 for 50c.

**MELPOMENE.**—Words cannot describe the beauty of this variety. Frosted white, spotted, clouded and bearded with pinkish crimson. Petals recurved and widely bordered. Each 20c; 3 for 50c.

**TENUFOLIUM.**—The lovely Coral Lily of Siberia, brightest of all lilies, of shining coral red color. Foliage finely cut. This is indeed a little beauty. Each 15c; doz. \$1.50.

### EASTERN SPLENDOR LILY COLLECTION

One nice bulb each of the Auratum, Rubrum, Album, Double Tiger and Melpomene lilies for only 75 cents, postpaid.

#### TIGER LILIES

The old fashioned tiger lilies were favorites for many years, and are still popular. The improved varieties here offered are far superior to the old kind and are worthy a place in any garden.

**DOUBLE TIGER LILY.**—A double form of the old Tiger Lily. The flower is densely double, color orange red, spotted with black. Blooms freely; should be more largely grown. As hardy as the old-fashioned tiger lily and much more beautiful. Each 15c; dozen \$1.25.

**TIGRINUM SPLENDENS.**—An improved Tiger Lily growing sometimes 6 ft. high, and producing large pyramids of orange red flowers spotted with black. Ea. 10c; doz. \$1.

#### EASTER LILIES

are listed on page 83 with fall bulbs. The true Easter lily is not hardy, and is grown in the house during the winter. The hardy variety (Lilium Candidum) can be grown in same way as other field lilies, but we cannot supply stock in spring.



LEMON LILY



CORAL LILY

#### CALLA LILIES

These are generally sent out as dry bulbs, but the Little Gem variety are always started plants.

**MAJESTIC WHITE.**—Largest flowering variety and most majestic. It is of perfect flowering form with large tropical appearing leaves of bright green color and yielding throughout the season a profusion of white flowers. Large size each 25c, 3 for 60c; medium size each 15c, 3 for 40c.

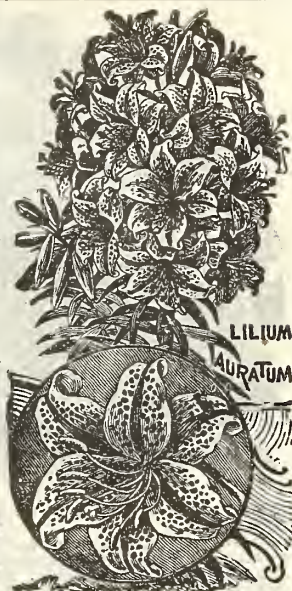
**ELLIOTTIANA.**—This magnificent new yellow calla is of marvelous beauty. The flowers are very large and of the brightest golden yellow. Leaves beautifully spotted with white. Each 35c; 3 for 90c.

**LITTLE GEM.**—A perfect miniature Calla, growing 8 to 12 inches high, producing beautiful snow-white blossoms. Blooms summer or winter, beginning when a few inches high. Growing plants 15c; 3 for 40c.

**SPOTTED LEAF.**—Leaves deep green with spots, giving plant a magnificent appearance. Flowers are of pure white with black centers. Fine for planting in the garden in summer. Each 10c; doz. \$1.00.



LITTLE GEM CALLA



LILIOLUM  
AURATUM



LILIOLUM  
SPECIOSUM  
RUBRUM

#### HEMEROCALIS LILIES

**LEMON LILY.**—One of the handsomest flowers for garden culture. It is not a true lily, as the bulb is of a different shape, but the flower is very much like the Lilium Speciosum in form and about 3 inches in diameter. The color is entirely different from all others, being a clear lemon yellow of very bright, pleasing appearance. They have also a most delightful lemon fragrance. There seems to be almost no limit to amount of bloom produced. Ea. 15c; doz. \$1.50.

**ORANGE LILY.**—(Hemerocallis Demorteri.)—Similar to Lemon Lily, but of fine orange color. A bed of these and Lemon Lilies intermingled will give a most pleasing effect in outdoor plantings, and the grower will be more than repaid by the wealth of blossoms available for table decorations or bouquets. We wish we might persuade all our flower loving customers to try the two lilies mentioned and we feel sure they will be delighted with results obtained. Each 10c; dozen 75c.

**BUTTERCUP LILY.**—(Hemerocallis Thunbergii.)—Is a splendid variety of Hemerocallis which blooms in July after the other varieties are done. Grows four feet high and produces large lily-like flowers of clear buttercup yellow. Each 10c, doz. \$1.00.

**SPECIAL OFFER.**—We will send 2 Lemon and 2 Orange and 2 Buttercup Lily bulbs for 50c, postpaid.

THE HARDY FIELD LILIES CAN BE PLANTED IN EITHER THE SPRING OR FALL AND EQUALLY GOOD RESULTS OBTAINED.





LILY OF THE VALLEY  
MADEIRA VINE

Also called Mignonette Vine and Mexican Vine. A beautiful tuberous-rooted climber, with rather plain, thick leaves and handsome racemes of fragrant white flowers. The vine makes a very rapid growth and a few plants will cover a trellis or cottage in a single season. It is a very pretty thing to use for shading a porch or veranda, as the leaves are brilliant, glossy green. The bulbs are frequently known as "Madeira Potatoes," and our stock is particularly well grown, carefully sorted, strong and vigorous. Each 5c; dozen 45c.

### SUMMER FLOWERING OXALIS

No bulb is so valuable for edging the borders of walks or flower beds as the beautiful flowering Oxalis. When planted three inches apart they produce an unbroken row of elegant foliage and pretty flowers; and they bloom very quickly after planting.

**SHAMROCK.**—Leaves resemble four-leaf clover; the flowers rose color and borne in profusion on vine-like stems. Pretty for border. Doz. 10c; 100 60c; mammoth bulbs per dozen 15c.

**DIEPPI ALBA.**—Pretty low-growing variety with light green leaves and clusters of pure white, bell-shaped flowers; blooms profusely. Doz. 10c; 100 for 50c.

**LASIANDRA.**—Large, dark green, palmate or five-fingered leaves, with clusters of rosy pink flowers. This is taller than above. A most satisfactory bulb for bordering flower beds. Doz. 10c; 100 for 60c; mammoth bulbs per dozen 15c.

I have received the last items on my order for seeds and plants, all in excellent condition and healthy in appearance. I thank you for promptness and liberality.—Frances W. Kelly, New Haven, Connecticut.

### RESURRECTION PLANT

A curiosity which is sure to interest children. It looks like a ball of dried moss, but when it is dropped into a bowl of tepid water it quickly opens out into a beautiful fern-like plant. It is not planted in the earth. Can be taken out of the water at any time and dried to its closed shape. Lasts indefinitely. The illustration below shows the plant in its open form after lying in water for twenty-four hours. Each 15c; 4 for 50c.



RESURRECTION PLANT



MADEIRA VINE



OXALIS SHAMROCK

### TIGRIDIA

**PEACOCK OR SHELL FLOWER.**—A showy summer bulb, blooming freely from midsummer until frost. Large, wide open, triangular blooms. Colors and markings are very brilliant and peculiar, odd and attractive. Clumps of them in a border have a most gorgeous effect. Very easily grown. Each 5c; doz. 50c.

### TRITOMA

**PFITZERI.**—(Flaming Torch.)—Flower spikes are produced in great freedom and are gigantic in size, frequently 3 to 4 feet high. The flowers are of rich orange scarlet, shaded to a rich salmon rose at the edge. A bed of these in bloom is a grand sight, or, scattered through the flower garden it adds brightness and is in its glory when nearly all other flowers are seared with frost. Ea. 20c; 3 for 50c.

### LILY OF THE VALLEY

A well-known and universally admired spring flowering plant, bearing bell-shaped, freely produced and powerfully fragrant flowers. To grow in the open ground one should select a partly shaded and rather moist situation, and they are very charming when grown in large patches as their handsome green leaves and lovely sprays of flowers make a beautiful effect together. When once planted and established the crowns increase in number and the larger ones flower each year without attention. Now is the time to set out a bed of these delightful flowers. Our price is low for choice stock such as we send out. Four strong roots for 15c; dozen 35c; 100 for \$2.50.

### MONTBRETIA

**CROCOSMIFLORA.**—A new summer-flowering bulb, easier than the gladiolus to grow, and can be planted earlier and left in the ground later, as they are so hardy they continue to bloom after fall frosts. One of the brightest and most winsome flowers we know of. From July to October they are one mass of flowers, spike after spike of the flame-like beauties appearing. Very fine for cutting. Each 5c; dozen 40c.



PEARL TUBEROSE  
TUBEROSE

**NEW EXCELSIOR PEARL.**—The tuberose is justly a universal favorite and very easily grown. This variety has short, robust stem and long spikes of large flowers, which are perfectly double and twice the size of the common tuberose, while of equally delicious fragrance. Spikes frequently bear 30 to 50 flowers, remaining in bloom for a long time. They are always wax-like, pure white, and unsurpassed for button-hole bouquets. Monster bulbs each 1c; doz. 40c. First size bulbs each 5c; doz. 40c. 25c; 100 for \$1.25.

**MEXICAN SINGLE.**—Grows 3 feet high, producing two to five flower stems from one bulb. Flowers single, pure white, much pleasanter in fragrance than the Pearl. Ea. 5c; doz. 40c.

**VARIEGATED LEAVED.**—Leaf bordered a creamy white; flowers single but very large and exquisitely fragrant. Bulbs continue to grow and bloom year after year. Ea. 5c; doz. 50c.



TRITOMA PFITZERI

YOU CAN GET RESULTS QUICKLY BY PLANTING SUMMER BULBS. OURS ARE FULLY MATURED AND OF BLOOMING SIZE.





VON SION DOUBLE NARCISSUS

**NARCISSUS**

**VON SION.**—The True Double Yellow Daffodil.—Has a rich golden yellow perianth and trumpet. This is the old favorite so highly prized in many old-fashioned gardens. Extra large double nozed bulbs, producing two or three flower spikes. Each 6c, dozen 60c; 100 for \$4.00.

**EMPEROR.**—Extra large single flowers, both trumpet and petals yellow. Each 6c, doz. 60c; 100 for \$4.25.

**EMPRESS.**—Like above. Trumpet yellow, petal white. Each 6c, doz. 60c; 100 for \$4.00.

**POETICUS.**—"The Pheasant's Eye," or "Poet's Narcissus." Pure white flowers with orange cup edged with crimson. Hardy. Each 3c, doz. 25c.

**INCOMPARABLE DOUBLE.**—(Butter and Eggs)—Full double of rich yellow and orange. Each 4c, doz. 40c.

**PAPER WHITE GRANDIFLORA.**—Can be made to bloom in December. There is no more satisfactory bulb for house cultivation. Snow-white flowers. Each 5c, dozen 40c.

**SINGLE EARLY TULIPS**

**ARMS OF LEYDEN.**—White, striped and slashed red. Each 4c; doz. 40c, 100 for \$3.00.

**BELLE ALLIANCE.**—Deep scarlet flower. Each 4c, doz. 45c, 100 for \$3.50.

**COLEUR PONCEAU.**—Rosy crimson, and tipped white. Ea. 3c, doz. 30c, 100 for \$2.00.

**CRAMOISE BRILLIANT.**—Bright vermilion red. Each 4c, doz. 40c, 100 for \$3.00.

**CRIMSON KING.**—Showy, bright crimson flowers. Each 3c, doz. 30c, 100 for \$2.

**DUCHESS OF PARMA.**—Orange-yellow, and brown shadings. Each 3c, doz. 30c, 100 for \$2.00.

**COTTAGE MAID.**—Carmine pink, center of petals feathered with white, base yellow. Each 4c, doz. 40c, 100 for \$3.00.

**PRINCE DE LIGNE.**—Bright deep yellow. Each 3c, doz. 30c, 100 for \$2.00.

**YELLOW PRINCE.**—Bright yellow. Each 3c, doz. 30c, 100 for \$2.00.

**LA REINE.**—White, sometimes tinged with rose. Each 3c, doz. 30c, 100 for \$2.00.

**KEIZERSKROON.**—Rich crimson with a broad gold margins. Each 4c, doz. 40c, 100 for \$3.00.

**SINGLE EARLY FINE MIXED.**—All colors. Each 3c, doz. 25c, 100 for \$1.50.

**IOWA SEED CO.'S BEST SINGLE MIXED.**—From very best named varieties. Each 4c, doz. 35c, 100 for \$2.50.

**PARROT TULIP.**—Flowers large and showy; fantastic in form, being so toothed and corrugated as to resemble a parrot's beak. Yellow, crimson or white, feathered with green, gold and scarlet. Mixed colors. Each 3c, dozen 30c, 100 for \$2.00.

**WINTER BLOOMING BULBS**

Some of the most beautiful and fragrant flowers belong to this class, and when potted in the house, they come in bloom just at the time when flowers are most wanted. Bulbs arrive from Holland about Sept. 20th. The best way is to order during spring or summer, then your order will be filled as soon as bulbs are received. Orders filled in rotation upon arrival of stock, and if yours is on file you are sure to receive choice fresh bulbs and get your order in full. Sometimes stock is exhausted later in fall and some items cannot be supplied to late customers. These bulbs are solid and heavy and the postage is expensive but we prepay them at prices named. If any of these items appear on your spring seed or plant orders the seasonable goods will be sent and the winter bulbs will be mailed you at time specified above. Orders should amount to at least 25 cents.

**FREESIA**

One of the daintiest flowers for conservatory or window garden. Color white with yellow blotched throat; quite fragrant; free bloomer and will keep for two weeks in water after cutting. If planted early can be forced to bloom by Christmas. Six or eight bulbs should be planted in 4-inch pot. Not hardy.

Choice bulbs 3c, doz. 25c. Mammoth bulbs 5c, doz. 45c.

**CROCUS**

White, Mixed Shades of Yellow, Mixed Blue and Purple, Striped and Variegated Mixed, doz. 15c, 100 \$1; Cloth of Gold, Cloth of Silver, Mammoth Yellow, doz. 20c, 100 \$1.25; all colors mixed, doz. 10c, 100 80c.



DOUBLE SINGLE AND PARROT TULIPS

**DOUBLE EARLY TULIPS**

**LA CANDEUR.**—Pure white. Beautiful with Rex Rubrorum. Each 4c, doz. 35c, 100 for \$2.75.

**REX RUBRORUM.**—A brilliant double scarlet. Each 4c, doz. 40c, 100 for \$3.00.

**DUKE OF YORK.**—Carmine rose, edged broadly with white, suffused rose. Each 4c, dozen 35c, 100 for \$2.50.

**LA CITADELLE.**—Purplish red, bordered yellow. Each 4c, doz. 40c, 100 for \$3.00.

**TOURNESOL.**—Orange scarlet with broad yellow tips and yellow base. Each 5c, doz. 50c, 100 for \$3.75.

**MURILLO.**—(Albino)—Blush white, and shaded rose. Ea. 4c, doz. 35c, 100 for \$2.75.

**DOUBLE EARLY FINE MIXED.**—An excellent assortment. Each 3c, doz. 25c, 100 for \$1.50.

**IOWA SEED CO.'S BEST DOUBLE MIXED.**—Made from choicest named varieties. Each 4c, doz. 35c, 100 for \$2.50.

**SNOWDROPS**

Single, doz. 15c, 100 for \$1.15, postpaid. Double, doz. 25c, 100 for \$1.75, postpaid.

**SCILLA SIBERICA**

Each 4c, dozen 35c.

**JONQUILS**

Of Narcissus family. Each 4c, doz. 35c.

**ORNITHOGALUM**

(The Great Flowered or Arabian Star of Bethlehem)—Each 10c, dozen 90c.

**HYACINTHS****Single Varieties.**

**GERTRUDE.**—Bright red. Large truss. Each 12c, dozen \$1.20.

**GIGANTEA.**—Enormous broad spikes, bluish-pink. Ea. 12c, doz. \$1.20.

**QUEEN OF THE BLUES.**—Porcelain blue. Each 15c, doz. \$1.50.

**L'INNOCENCE.**—Pure white; large; blooms early. Each 15c, dozen \$1.50.

**IDA.**—Beautiful golden yellow; has large spike; best single yellow sort. Each 15c, dozen \$1.50.

**Double Varieties.**

**BOUQUET TENDRE.**—A beautiful flower; deep crimson. Ea. 12c, doz. \$1.20.

**GOETHE.**—Large, fine truss; handsome citron yellow. Ea. 15c, doz. \$1.50.

**BOUQUET ROYAL.**—Fine light pink or blush. Extra large spike. Each 12c, dozen \$1.20.

**BLOKSBERG.**—Light blue; large spike. Color very fine. Ea. 12c, doz. \$1.20.

**LA TOUR D'AUVERGNE.**—Is very early flowering and the best of all double whites. Each 12c, dozen \$1.20.

**BEDDING HYACINTHS****SINGLE AND DOUBLE.**

Pure white, rose and pink, red, light blue, dark blue, each 8c, dozen 80c. Yellow, each 10c, dozen \$1.00. Mixed, all colors, each 7c, dozen 75c.

**ROMAN HYACINTHS**

The florists favorite. Much earlier in bloom than the larger Dutch sorts. Easy, quick forcing, fragrant flowers.

	Each	Doz.
Pure White .....	6c	\$0.60
Light Blue .....	5c	.50
Delicate Rose .....	5c	.50
Canary Yellow .....	10c	1.00

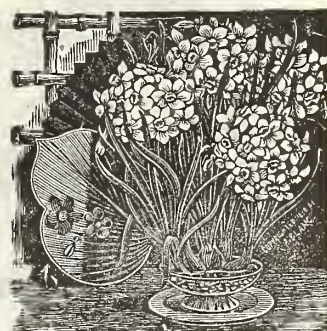
**LILIES**

**EASTER LILY.**—Large, pure white trumpet shaped flowers. For winter blooming indoors. Ea. 20c, 3 for 50c.

**CANDIDUM LILY.**—Pure white, hardy garden lily for early blooming. Each 12c, doz. \$1.20.

**CHINESE SACRED LILY**

Most popular of all bulbs for winter blooming; of easiest culture. A variety of Polyanthus Narcissus grown by the Chinese. Produce a profusion of bloom in about six weeks from time of planting. Foliage a luxuriant dark green color, surmounted by large, satiny white, fragrant flowers with golden yellow cup. Partly aquatic and must have plenty water. Each 15c, doz. \$1.50.



CHINESE SACRED LILY



# GREENHOUSE DEPARTMENT

## GREENHOUSES



Iowa Seed Company's Thirty-two Greenhouses

It is now thirty years since we purchased a range of greenhouses and during the past few years we have entirely rebuilt them, adding greatly to their size each year, and we now have thirty-two large greenhouses besides a large number of steam-heated hotbeds and cold frames, giving us one of the most extensive plants in the country. We employ experienced florists to look after this branch of our business and all their time and attention is devoted to growing flower plants and bulbs exclusively for the mail order trade, as for this purpose they require special culture in greenhouses kept at a low temperature so that they will be hardy, healthy and vigorous. Plants thus grown are much better prepared for shipment through the mails and for setting out in the open ground than those grown in the ordinary greenhouses which are kept at a high temperature. We are filling orders constantly from every state and also from Mexico and other foreign countries.

**Notice.**—We ship all plants as soon after order is received as weather permits. Bedding plants we will hold until usual season for setting out. If plants are ordered during winter for immediate shipment they will be sent at buyer's risk.

Our system of packing is so very complete that plants arrive in almost as perfect condition after traveling many hundreds of miles as they were when packed.

**Terms and Discounts.**—At prices named we send plants postpaid except where noted. Orders must amount to at least 25 cents, for if of less amount they are filled at a loss.

**Special Express Rates.**—All express companies now carry plants at second class rates, which are about 25 per cent cheaper than ordinary merchandise. In shipping plants by express at customer's expense for carriage we leave the dirt on the roots unless instructed to the contrary.

**We Guarantee** plants ordered from this list to reach purchasers in any part of United States in good order by mail or express. Complaint must be made immediately on receipt of goods.

**Separate Plant and Seed Orders.**—Write plant order on separate sheet so it can go to greenhouse for filling.

Bedding plants we will hold until usual season for setting out. If plants are ordered during winter for immediate shipment they will be sent at buyer's risk.

### ABUTILON

**SAVITZI.**—A most beautiful new variegated-leaved plant. Its maple-like leaves are almost white, being blotched here and there only with clear, bright green; very large, orange-colored, bell-shaped flowers. Ea. 15c.

**ECLIPSE.**—A splendid variety for baskets and vases; foliage marbled green and yellow; flowers scarlet and orange buff. Each 15c.

**SOUVENIR DE BONN.**—A striking decorative foliage plant with beautiful variegated leaves of good size, regularly and evenly marked with white and green. Very large, graceful drooping, orange-colored flowers. Ea. 10c.

**ARTHUR BELSHAM.**—Green foliage. Flowers large, dark red without markings. Tall and erect. Strong grower, free bloomer; a satisfactory variety. Each 15c.

**GOLDEN BELLS.**—The best yellow flowering variety; of dwarf habit. Each 15c.

**ERECTA.**—Color pink, changing to orange. Each 10c.

### ABUTILON COLLECTION

One each of the six Abutilons named above, postpaid, for only 60 cents.

### ARAUCARIA

**EXCELSA.**—This beautiful plant resembles the pine somewhat in appearance, though much finer in texture, and is particularly adapted to table decoration. It is most unique in appearance. Its deep green, feathery foliage arranged in whorls—decorations. By mail, each \$1.00; large, by express, not prepaid, \$1.50 and \$2.00.

### ASPARAGUS

**PLUMOSUS NANUS.**—One of the handsomest of our foliage plants for pot culture, beautiful the year round, and there is no more decorative plant in the entire list. Easily grown, even in a north window. Leaves bright green, gracefully arched, and as finely woven as the finest silken mesh; their lasting qualities, when cut, are remarkable, retaining their freshness for weeks. Each 10c; large 25c.

**SPRENGERI.**—A splendid new plant for hanging baskets or pots. It droops most naturally, sending out numerous feathery fronds which, in a short time, make a growth of 3 to 6 feet, forming an exquisitely handsome and striking picture. It produces small white flowers which are succeeded by red berries. A well established plant is literally a mass of emerald green. Nice young plants each 10c; large size each 25c.



ARAUCARIA



ASPARAGUS PLUMOSUS NANUS



ASPARAGUS SPRENGERI

WE EXPECT TO PLEASE YOU WITH THE STURDY, THRIFTY CHARACTER OF THE PLANTS WE SEND OUR CUSTOMERS.





CHENILE PLANT

**ACALYPHA**

**BICOLOR.**—Brighter and more attractive for bedding than Coleus. Leaves bright green margined with band of lemon yellow, dotted and splotted with the same color. Highest coloring in sunny situations. Each 15c.

**TRICOLOR.**—Mottled and blotched with crimson and scarlet on green background. Foliage extra large and maintains its markings best in summer heat. Each 15c.

**MARGINATA.**—Foliage bronze green, margined with bright pink on edges of the leaves. Contrast pleasing and attractive. Each 10c.

**SANDERL.**—(Chenile Plant.)—A most striking ornamental plant of branching habit. The flower spikes, which appear in pairs from the axis of the leaves, grow 2 to 3 feet in length. They are bright crimson and mix among the green foliage with charming effect. Desirable both outdoor and in. Each 15c.

**ONE EACH, FOUR VARIETIES ACALYPHA, POSTPAID, FOR 45c.**

**AGERATUM**

**PRINCESS PAULINE.**—A most distinct and novel variety, of dwarf, compact habit, rarely exceeding 5 inches in height. Both colors, blue and white, are combined in one flower. Free flowering the entire season and very bright and pretty. Each 10c; doz. \$1.00.

**STELLA GURNEY.**—Color a deep, even blue and literally forming a sheet of bloom all summer. Dwarf, compact growth. Each 10c; dozen \$1.00.

**QUEEN ALEXANDRA.**—Beautiful shade of dark blue; flowers extra size. Gives delightful effect for border of bright colored beds. Each 10c; doz. \$1.

**INIMITABLE.**—This is a light blue-lavender shade. Handsome. Ea. 10c.

**WHITESWAN.**—Pure whitesort; fine for borders or beds. Each 10c; doz. 75c.

**LITTLE BLUE STAR.**—Very dwarf; growing 6 to 8 inches; continuously in bloom all summer. Each 10c; doz. 75c.

**ONE EACH OF SIX AGERATUMS NAMED ABOVE FOR ONLY 50c.**

**ASTER PLANTS**

**BEST VARIETIES MIXED.**—Price is low and you should have a fine bed of these. Doz. 25c; 100 \$1.50, prepaid.

**PURITY WHITE.**—Doz. 30c; 100, \$2.

**DAYBREAK PINK.**—Per doz. 30c; 100 for \$2.00.

**CARDINAL RED.**—Per doz. 25c; 100 for \$1.75.

**ROYAL PURPLE.**—Doz. 35c; 100 \$2.25.

**12 EACH OF ABOVE FOUR COLORS FOR ONLY \$1.00.**



ENCHANTRESS ASTER



PRINCESS PAULINE AGERATUM

**ALTERNANTHERA**

Bright colored, dwarf growing foliage plants, used for carpet bedding, borders, etc. An effective plant for special designs in large beds, for lettering and small figures. Any variety, each 10c, dozen 50c, 100 for \$3.50.

**AUREA NANA.**—Foliage bright yellow.

**BRILLIANTISSIMA.**—Brightest of any red; is striped crimson and green.

**PARYCOIDES MAJOR.**—Dark red with green and yellow stripes.

**ROSEA NANA.**—Dwarf; rosy crimson foliage.

**VERSCOLOR.**—Olive green, chocolate and crimson.

**ACHYRANTHES**

Beautiful foliage plants; useful for carpet beds and masses. Stand heat and sun without losing color and shear without injury. Four kinds. Ea. 10c; dozen 75c; 100 for \$6.00.

**DE BAILEY.**—Red and green, brown leaf.

**COLLINSII.**—Green and yellow, narrow pointed leaf.

**LINDENI.**—Dark purple, narrow pointed leaf.

**EMERSONII.**—Purplish crimson, round leaf.

**BOUVDARIA**

**ALFRED NEUNER.**—The ideal Bouvardia. A strong grower, producing clusters of most beautiful, waxy, double, pure white flowers. Is of greatest value for winter blooming. Each 15c.

**PRESIDENT GARFIELD.**—A sport from Alfred Neuner, with the same double flowers but differing in color, which is a clear, rosy pink. Desirable. Each 15c.

**HUMOLDTI.**—Similar to above; flower white. Each 10c.

**COLLECTION—ONE EACH THREE BOUVDARIAS, 30c.**

**ARTEMESIA**

**STELLERIANA.**—Sometimes called Old Woman. Also known by some as Dusty Miller. Fine for borders or bedding on account of clear white foliage. Each 10c; doz. 75c.



GIANT WHITE ANTIRRHINUM

**ANTIRRHINUM**

The Antirrhinum is rapidly becoming a general favorite for both outdoor and indoor planting. Desirable for decorations in tall vases as cut flowers. Succeeds without extra care. The giant varieties far surpass the old-fashioned sorts in every way.

**GIANT WHITE.**—An especially fine variety of the Giant Snapdragon. Perpetual bloomer, producing dozens of long spikes of beautiful pure white flowers. Its blooms will last two weeks. Each 10c; dozen \$1.00.

**GIANT YELLOW.**—Like white, but color is pure lemon yellow. Each 10c; doz. \$1.00.

**GIANT WHITE AND YELLOW.**—Flower white with yellow lip. Each 10c; dozen \$1.00.

**KILLARNEY PINK.**—The peculiar pink shade seen in the Killarney rose. Each 15c; doz. \$1.50.

**GIANT RED.**—Bright, brilliant flower; offered special to complete collection. Each 10c; doz. \$1.00.

**ONE PLANT EACH OF THE FIVE COLORS IN ANTIRRHINUM, POSTPAID, FOR 40c.**

**ARTILLERY PLANT**

A neat little plant resembling some ferns. Graceful habit makes it suitable for baskets and vases. Each 10c.

Note the Special Offers, Page 111.



ALFRED NEUNER BOUVDARIA



## BEGONIAS

Begonias are greatly prized by lovers of house plants generally. The Rex types are perhaps the most magnificent of all foliage plants, while many of the flowering sorts present a wonderful mass of blossoms, and all are beautiful.

**COUNTESS LOUISE ERDODY.**—This variety is sometimes called "Snail Begonia," on account of the peculiar formation of the leaves. The form is exceedingly odd and unique. Its striking peculiarity is the fact that the two lobes at the base of the leaf do not grow side by side, but one of them winds in a spiral-like way until in a full-grown leaf there are four of these twists lying on top of the leaf, nearly two inches high. The leaf has a metallic luster, dark silvery in the center, shading to coppery rose toward margin, which is broadly and evenly edged with same hue, but darker and more brilliant. Very curious. Each 25c.

ARGENTEA GUTTATA BEGONIA

**ARGENTEA GUTTATA.**—Has purple bronze leaves with silvery markings. The flowers are white. A very vigorous, strong growing variety of the easiest culture and always satisfactory. Is an old, well-known variety but still very popular. Each 10c.

**REX.**—The Rex or King Begonia may well be called the king of foliage plants and they make a magnificent showing with their rich lustrous tints and tropical looking leaves. There are many different varieties, presenting a great range of beautiful markings and splendid color effects. Best results in moist and shaded situations, making it the very finest plant for household decoration. We have a particularly choice stock of these, including many different kinds, and we are sure they will please. Ea. 20c. Large specimen plants 40c.

**MADAM DE LESSEPS.**—Has very large leaves of silky texture beautifully spotted with silver. Flowers pink and white. Each 15c.

**PROFUSION.**—A new French variety of vigorous growth. Flowers are bright pink, produced evenly all over the plant. Each 10c.

**BEEFSTEAK.**—(Warszewicz.)—Old fashioned sort with thick, round leaf; deep green above, red underneath. Always popular. Each 15c.

**ALBA PICTA.**—Leaves of a glossy green color, thickly spotted with silvery white. Flowers white. Each 15c.

**METALICA.**—This elegant variety has very large leaves shaded with green, crimson and olive, with a peculiar metallic luster over all. Flowers a clear pink, shaded with white. Each 15c.

**RUBRA.**—This fine variety is a constant bloomer. Heavy, waxy green leaves. Flowers rosy scarlet. Each 15c.

**VERNON.**—Of unusual value for bedding, as it will stand the hot summer sun. Flowers of pink, blush and brilliant red, foliage sometimes margined with bronze purple. Each 10c; dozen 90c.



VERNON BEGONIA



REX BEGONIA

### Beautiful Begonia Collection

One Rex, one Alba Picta, one Argentea Guttata, one McBethii, one Thurstonii, one Miniata, one Madam DeLesseps; seven fine plants covering nearly all the distinct types of Begonias and offering a wide range of beauty for only 75c, post-paid.

### TUBEROUS BEGONIA

**SINGLE TUBEROUS ROOTED.**—Giant flowering tuberous rooted begonia which has been brought to wonderful perfection. Flowers sometimes grow 6 in. in diameter, borne upright on stiff stems and of richest colors, embracing every shade—white, pink, scarlet, crimson and yellow. Each 10c, doz. 75c.

**DOUBLE TUBEROUS ROOTED.**—Shows the same shades and markings as the single flowered tuberous sorts. A few doubles and singles intermingled and showing a mixture of colors, will make a beautiful summer bed of bright flowers. Bulbs each 10c, doz. \$1.00.



THURSTONII BEGONIA

**THURSTONII.**—A stately growing variety with handsome glossy leaves. Remarkably fine foliage, the under side of the leaves being rich purplish red, with prominent veinings. Upper side bronzy green, shaded crimson and olive and a metallic luster over all. Flowers rosy white, in clusters. Each 15c.

**HAAGEANA.**—Flowers rosy pink, bright and attractive. Plant tall. Shrubby with hairs on stems and leaves. Each 15c.

**MCBETHII.**—Foliage fine, fern-like. Panicles of pure white flowers produced in the greatest profusion. It is a most persistent bloomer. Each 10c.

**SANDERSONII.**—A variety growing in compact, bushy form, with deep, glossy green leaves and scarlet flowers in drooping clusters. Each 15c.

**MINIATA.**—A beautiful variety of upright bushy style of growth; flower bright scarlet. They are very free flowering. Each 10c.

**NITIDA.**—White flowers, delicately suffused rose, produced in good sized clusters of large flowers. Each 10c.



TUBEROUS ROOTED BEGONIA



**BOUGAINVILLEA**

**SANDERIANA.**—This beautiful flowering plant is very popular. It is of strong and rapid growth and the brilliant, rosy crimson blossoms are produced from early in March until mid-summer, in fact, a plant will frequently cover the greater part of the year. Altogether, it is a most desirable subject for the conservatory or window garden. Each 15c.

**W. K. HARRIS.**—This is very similar in manner of growth to the above, with additional beauty of variegated foliage. Each 25c.

**BROWALLIA**

**MAMMOTH.**—The most beautiful of all the Browallias. Plants grow only about a foot high, forming dense little bushes, covered with an abundance of most delightful sky blue flowers. For beds, borders or pots there is hardly another plant with blue flowers that compares with it. Each 15c, dozen \$1.25.

**BRYOPHYLLUM**

A most curious plant. Leaves thick and heavy and when cut and placed in moist soil little plants start from notches in them and make strong plants in very short time. Flowers look like long, green, red striped pods, through which breaks a pointed tube of dull red shade. Each 10c.

**CRAPE MYRTLE**

A very pretty shrub which is hardy in the South but is usually grown in large pots or tubs in this latitude so that it can be taken into a cellar in the winter. Produces a profusion of delicate soft pink flowers. Each 15c, large 30c.

**CENTAUREA**

**GYMNOCARPA.**—(Dusty Miller.)—A dwarf, silvery foliated plant used largely for ribbon beds or borders. Each 10c; doz. 75c.

**CACTUS**

**NIGHT BLOOMING CEREUS.**—This gorgeous cactus bears abundant pure white blossoms measuring twelve inches across. A plant loaded with these flowers is a sight never to be forgotten. Blooms at night and is very fragrant. Better order one and call your neighbors in to see it bloom. This is the true round stemmed variety and not the common flat leaved sort. Each 20c.

**FLAT LEAVED CEREUS.**—The common sort, similar to above, except in form of stem. Each 15c.

**CHRISTMAS CACTUS.**—Epiphillum. — Also known as Lobster Cactus. Stems branching and hanging in bunches. Flowers bright red; blooms freely. Each 15c.

**CYCLAMEN**

**GIANT FLOWERED.**—Most beautiful and decorative of all pot plants, for winter and spring blooming. Foliage broad, massive and graceful, of dark green, beautifully variegated with silver and rose. The immense, fairy-like flowers are carried on long stems and produced in profusion for several months; quite fragrant. Assorted colors. Each 15c, extra large size 25c.

**CHRISTMAS PEPPER**

Surprisingly pretty house plant. A round, compact bush 12 to 15 inches in height with dark olive green leaves and covered with curious little heart-shaped fruits of bright colors—purple, white, yellow, orange and red on the same bush. Fruits are edible as small garden peppers. Each 15c.

**CROWN OF THORNS**

**EUPHORBIA.**—Very curious and remarkable window plant. Strong-growing plant that can be trained over any desired form. Bright scarlet flowers. An object of rare and striking beauty. Easily grown. It grows wild in Judea, and it is said that it was from this plant that the crown of thorns was made which was worn by our Savior, and it is therefore of special interest. Each 20 cents.

The ferns arrived here O. K. and they are fine, better than I expected.—Mrs. Frank Kasper, Beaver Dam, Wis.

I received my plants and was more than pleased with them. They were the strongest and healthiest plants I ever received for the money.—Clare A. Clark, Delmont, South Dakota.

I received the plants in fine shape, for which I am very thankful and appreciate your kindness very much.—Mrs. H. A. Remanger, Halley, Oregon.

Received the plants last night all in fine order. I am more than pleased with them and thank you for the extras.—Mrs. C. L. Bates, Hastings, N. Y.



BRYOPHYLLUM.



MAMMOTH BROWALLIA.



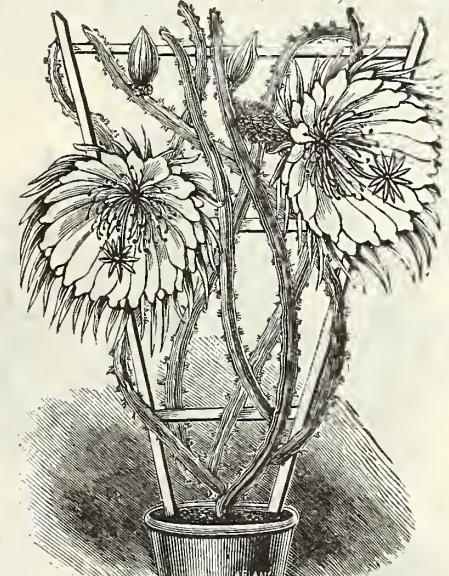
CYCLAMEN.



CROWN OF THORNS.



BOUGAINVILLEA.



NIGHT BLOOMING CEREUS.



CHRISTMAS PEPPER



# CARNATIONS

Fragrant flowers are always sought after, and the rich, spicy odor of the carnation, combined with its various colors, leaves little to be desired. They are easily grown and bloom freely.

**BENORA.**—A handsome variegated variety, color white with irregular streaks of red. A beautiful composite flower which is very popular. Each 15c.

**COMMODORE.**—A charming shade of crimson scarlet, differing from any other variety, and to our minds of special beauty. Difficult to describe in ordinary color terms, but will please all lovers of red carnations. Each 20c.

**ENCHANTRESS.**—A charming variety of immense size and delightful blush pink color. The original of the popular Enchantress type of carnation, which is the favorite with all florists. Each 15c.

**HARLOWARDEN.**—A bright, dazzling crimson flower; a very free bloomer, bearing flowers on long stems, making it very desirable as a cut flower. Very popular with florists and a splendid variety for the amateur. Each 15c.

**HERALD.**—A new sort of ruby red color. There are but few carnations of this peculiar color and this one is offered as the best of the type. The plant is strong, and bears flowers on long stems in profusion. Because of its superior qualities, we are listing it in our famous Enchantress Collection, believing it worthy a place therein. Each 15c, dozen \$1.50.

**J. W. RILEY.**—We consider this elegant new variety the best yellow flowered sort ever sent out. It is nearly pure yellow, being faintly striped with red. Flowers large, very double and produced abundantly. Each 15c, dozen \$1.50.

**MATCHLESS.**—A pure white flower of extra large size, perfect in form and of great substance. Plant vigorous, bearing the flowers on long, stiff stems. Petals are beautifully fringed, while blooms are exceedingly fragrant. A comparatively new variety, but is generally given first place among white carnations because of its general excellence. Each 15c, dozen \$1.50.

**MRS. C. W. WARD.**—This is a beautiful pink shade, somewhat lighter than Mrs. Lawson, but is of better growth, more vigorous and thrifty than that popular variety. Each 15c.



## PEERLESS CARNATION COLLECTION

ENCHANTRESS

Our Peerless Carnation Collection is our special floral offer for this season and the varieties in this collection are selected for this offer because of extra quality. The collection is made up of six choice varieties of different colors:

**J. W. RILEY.**—Golden yellow, slightly striped crimson.

**ROSETTE.**—Bright ruby red.

**BENORA.**—White, striped red.

**PEERLESS.**—Clear, light pink.

**WHITE WONDER.**—Large, pure white.

**SCARLET GLOW.**—The best scarlet.

One each of these varieties postpaid for only 60c.



## ENCHANTRESS CARNATION COLLECTION

Five extra large flowering sorts of different colors:

**Enchantress.**—Pink.

**White Enchantress.**

**Mrs. C. W. Ward.**—Pink.

**Harlowarden.**—Crimson.

**Herald.**—Bright red.

One each of above 50c.

ROSE PINK ENCHANTRESS

**PEERLESS.**—A new variety of such excellence that we give it special prominence. Color is clear, bright pink, a lovely shade. Remarkably free bloomer, strong growing and vigorous. Will please in every detail. Each 15c, dozen \$1.50.

**ROSETTE.**—An improved type, and rapidly becoming the favorite deep red variety. It is superior in habit of growth, very productive of bloom and will thrive for amateurs under ordinary conditions. Will be popular because of color. Each 15c, dozen \$1.50.

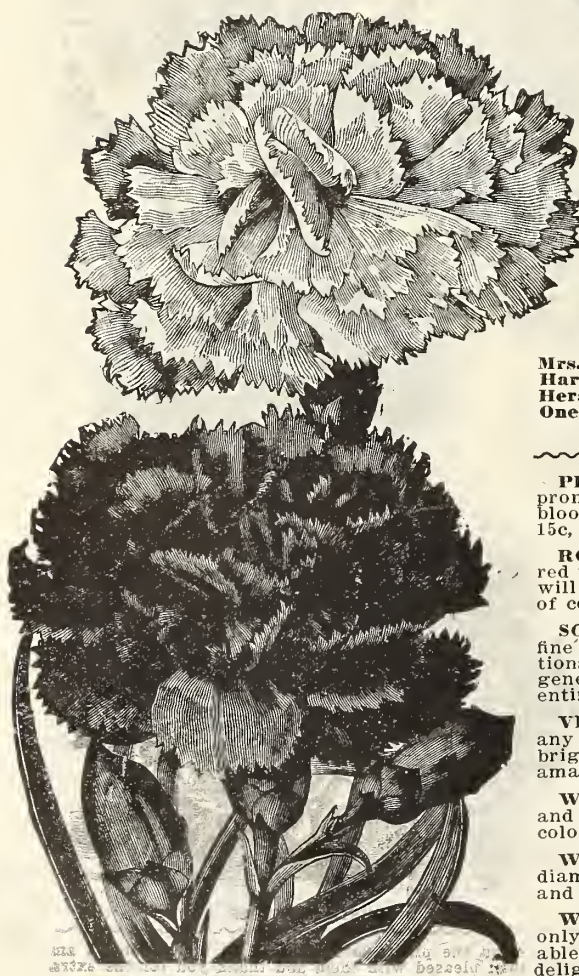
**SCARLET GLOW.**—A very beautiful carnation, intensely brilliant red, of fine form and substance, fragrant and lasting. Preferred among red carnations for its brightness. No color in carnations is so popular as red, and generally a good red is hard to secure. The Scarlet Glow will be found entirely satisfactory. Each 15c, dozen \$1.50.

**VICTORY.**—Many carnation growers say it is the finest scarlet color of any carnation. Even when the flowers are aged they seem to retain their bright color. It is very easy to grow and for that reason is a favorite with amateurs. Vigorous in habit and a very free bloomer. Each 15c.

**WHITE ENCHANTRESS.**—One of the finest white carnations. In type and habit like the original Enchantress. Flowers extra large and of purest color. Strong grower and profuse bloomer. Each 15c.

**WHITE PERFECTION.**—Is pure white. Blooms three inches and over in diameter. Beautifully fringed; fragrant; exceedingly free blooming; early and continuous; vigorous; the stems are stiff. Each 15c.

**WHITE WONDER.**—Large, nicely filled flowers of the purest white. Not only good for large sized blooms when given special care, but they are valuable for garden planting and pot culture. Very sweetly scented with that delightful old-fashioned clove fragrance lacking in many of the newer carnations. Each 15c; dozen \$1.25.



WHITE ENCHANTRESS AND HARLOWARDEN

GARDEN PINKS ARE LISTED AMONG THE HARDY PLANTS. MARGUERITE CARNATIONS ARE AMONG THE FLOWER SEEDS.



## CHRYSANTHEMUMS

These are now, and deservedly, the most fashionable of all autumn flowers. All these varieties are excellent for pot culture, and the best of their class. Attract universal attention at great flower shows on account of large size, exceptionally fine shape, and handsome colors. Their large size is of course especially noticeable when grown as a single stem and only one flower is allowed to develop on each plant.

**A. J. BALFOUR.**—A grand Japanese variety, one of the finest bright dazzling rose pink; nothing to touch it in color. Each 15c.

**BLACK HAWK.**—A dark, velvety crimson. No reverse is noted as the petals are solid color. Form recurved, solid. Ea. 15c.

**CHIEFTAIN.**—A new pink sort with large blooms, close compact flowers, strong, sturdy habit and altogether desirable. Will be satisfactory in any collection, or as a single specimen plant. Each 15c.

**DR. ENGUEHARD.**—A magnificent new variety of very large size and solid appearance. It is a true bright pink, one of the largest and best ever introduced; is handsomely incurved and very pleasing in appearance. Blooms early in November and makes a splendid pot plant with stiff stem and healthy foliage. Each 15c.

**GOLDEN AGE.**—One of the best of the solid yellow 'mums. Color, habit and form all that might be desired. Will prove a favorite with all. Each 15c.

**IVORY.**—This fine old ivory white variety is still popular. Is the equal of the newer sorts and is a very fine sort for the amateur. Each 10c.



ROBERT HALLIDAY

**MARY ANN POCKET.**—A dwarf bushy grower, making a fine pot plant. Color a beautiful Indian red on opening, with a bronze reverse. As the flower ages it gradually incurves until it becomes a ball of bronze. Each 15c.

**Mlle. C. TOUSETT.**—A glistening white sometimes with pearl tints. Petals very broad, incurved. A variety sure to give results to the amateur. One of the most popular with florists because of immense size and striking beauty. Blooms frequently nine inches in diameter. Each 10c.

## TRI-COLOR CHRYSANTHEMUM COLLECTION

Extra Early Blossoms of Large Size.

**EARLY SNOW.**—The earliest of the large pure white sorts. Comes into bloom in September and is valued for its splendid form and adapts itself readily to amateur culture. Each 20c, 3 for 50c.

**GOLDEN GLOW.**—The earliest of the mammoth yellow flowered sorts. Easily grown and very desirable for the amateur. Each 15c.

**GLORIA.**—A superb extra early clear pink, offered in this collection because it blooms far ahead of most chrysanthemums. It is the earliest pink. Each 15c.

ONE EACH OF THE ABOVE THREE EARLIEST KINDS — BLOOM BEFORE FROST — POSTPAID, 35c.

**MRS. BUCKBEE.**—Fine, large and pure white; incurving with outer petals reflexed. Sure to give satisfaction. Each 15c.

**PERCY PLUMRIDGE.**—Buttercup yellow. A Japanese incurved variety with bright, shining color, attracting special attention and winning prizes at leading shows. Each 15c.

**ROBERT HALLADAY.**—One of the most popular of yellow sorts, because of early bloom and unique flower. A strong, vigorous plant with bloom of large size. Each 15c.



MARY ANN POCKET



GLORIA

**SOLOMON'S GOLD.**—As indicated by the name, it is of golden yellow color. Blooms are very large, incurved petals, close and of beautiful form. The plant is vigorous and we recommend it as a desirable yellow sort. Each 15c.

**SUPREME.**—A mammoth flowered variety, bright shining pink in color, strong and vigorous in growth. Very early and fine for a pot plant. Each 15c, 3 for 40c.

**TIMOTHY EATON.**—A globular Japanese incurved variety of perfect form and growth. Color pure white when fully developed. A prize winner at all shows last fall. Each 15c.

**YELLOW EATON.**—Immense flower of a bright golden yellow color. One of the finest varieties of this color. Each 15c.

## JAPANESE CHRYSANTHEMUM COLLECTION

Our superb offer of the finest large Chrysanthemums selected from the entire list as the choicest for home blooming.

**WINTER CHEER.**—A mammoth flowered variety often 7 inches in diameter, bright, shining pink in color, strong and vigorous in growth. Fine for a pot plant. Each 15c, 3 for 40c.

**HARVARD.**—A new crimson chrysanthemum of splendid form and magnificent full double solid flowers. Offered as the best red sort. Each 20c; 3 for 50c.

**WM. TURNER.**—Incurved type of bloom, solid and very large. Clear, pure white. It is valued for its splendid form, growing semi-dwarf, very strong and vigorous, and adapts itself readily to amateur culture. Each 20c; 3 for 50c.

**CHRYSOLOLA.**—A splendid yellow-flowered chrysanthemum of perfect form and bright color. Large size and strong grower. Each 15c, 3 for 40c.

One plant each of the above four Japanese Chrysanthemums, only 50c.



LOUIS BOEHMER

## OSTRICH PLUME SET

**WHITE SWAN.**—This is an exquisitely beautiful variety with grand pure white flowers of globular form; petals broad and lasting and thickly covered with fine downy hairs so much admired. Strong and vigorous plant. Each 15c.

**LEO CADIE.**—The best yellow Ostrich Plume. A splendid deep golden color and by many named as finest of its class. Each 15c.

**LOUIS BOEHMER.**—Like above, but of a deep pink color; fine. Each 15c. One each of the three varieties Ostrich Plume for only 30c.

## SINGLE CHRYSANTHEMUMS

**BELLE OF WEYBRIDGE,** chestnut; **CECIL DENYER,** milk white; **LADY-SMITH,** pink; **GOLDEN STAR,** yellow; **WYNDHAM,** pure white.

Any of these 10c each; or will mail the entire five for 40c.

## POMPON CHRYSANTHEMUMS

These small 'mums are popular again; give showers of bloom after most other flowers are gone.

**NIO.**—Delicate pink.

**ZENOBIA.**—Golden yellow.

**BABY.**—Smallest yellow.

**PANAMA.**—Dark red.

**LULU.**—Fine white.

Any of the above each 10c; per doz. 75c. One each of five named for 40c.

WE OFFER MANY SPECIAL BARGAINS IN THE VARIOUS COLLECTIONS OF PLANTS AS LISTED BY US IN THESE PAGES.



## COLEUS

Whoever has been in our large city parks will never forget the ornamental beds, curving and quaint designs and mingling arabesques of all colors—which look like varicolored rugs spread at short intervals on the smooth lawn. These are formed of Coleus. The following include the very best varieties.

**PRICES.**—All of the varieties of coleus named below each 10c; doz. 75c. Mixed varieties suitable for bedding, unnamed, 60c per dozen; \$4.00 per 100, postpaid.

**ADMIRAL DEWEY.**—A better bedder and a brighter color than Verschaffeltii; color a bright crimson, edged maroon.

**ANNA PFISTER.**—Pointed leaves with deep scalloped edges. Color bright golden yellow intermingled with green and crimson. Of dwarf and compact but spreading habit.

**BECKWITH'S GEM.**—A new sort of striking appearance. The large leaves have fine scalloped edges. It shows four shades of color, center maroon, bordered red; edge green with point of yellow.

**BIZARRE.**—A striking variety, with leaf center of bright crimson and edged green and gold.

**CHAMELEON.**—Combining numerous shades of color in the leaf in such way as to form a specimen of great beauty.

**CRIMSON BEDDER.**—Purplish crimson.

**DUNEIRA.**—Crimson, with maroon center and scalloped light red edge. A fine, showy variety.

**FIRE CREST.**—Bright crimson, with slight golden yellow edge, blotch of deep bronze in center. Splendid.

**GOLDEN BEDDER.**—Color yellow. This is the best yellow coleus for bedding; deep gold in the sun.

**GRACE ADAMS.**—Green leaf with red crested edge. An attractive variety.

**JAMES BRADSHAW.**—A fine, showy variety with striped leaf showing colors of crimson and yellow.

**JOHN PFISTER.**—Like Anna Pfister in growth but bright crimson color; edged with gold.

**MRS. F. SANDER.**—Large, creamy white center, bordered with green; blotched crimson and purple; fine for pots.

**PERFECTION.**—Bright crimson with yellow border.

**PROGRESS.**—Beautifully mottled red, green and bronze. A charming combination of colors.

**MRS. JOHN BOEHMER.**—Rich maroon bordered with golden band. Large pointed leaf.

**SUNSET.**—Center of leaf brownish purple shading to crimson; edge yellow.

**TRAILING BEAUTY.**—Trailing habit. Serrated leaves of fiery crimson, zoned deep maroon and edged green.

**VERSCHAFFELTII.**—The oldest, still one of the best; rich, velvety crimson.

### CARPET COLEUS BED

Fifty choice plants selected by us in varieties to produce a beautiful bed of colors, prepaid only \$2.00.



Farfugium Grande.



GREVILLEA OR SILK OAK



## CUPHEA

**PLATYCENTRA.**—(Cigar Plant.)—The old-fashioned cigar plant with narrow, tubular flowers of scarlet tipped with purple. Popular because always in bloom; bright and attractive. Each 10c.

## CYPERUS

**UMBRELLA PLANT.**—Listed and described by us with aquatic plants illustrated on page 101. It is very successfully grown as a pot plant, but requires plenty of water. Each 10c, large 25c.

## DRACENA

**INDIVISA.**—(Fountain Plant.)—Quite generally listed among palms. It is a decorative plant about two feet high, with slender, drooping green leaves, long and narrow. Each 15c, large 25c.

## ECHEVERIA

A little, succulent plant, commonly called "Old Hen and Chickens." Used in parks and cemeteries for ribbon beds and borders. Each 10c, dozen \$1.00.

## ELECTRIC LIGHT PLANT

A very showy plant, belonging to the Cleome family, which blooms constantly from July until killing frosts. Desirable either for specimen plants or for bedding. Is four to six feet high. Each 10c, dozen 75c.

## FARFUGIUM

**GRANDE.**—(Leopard Plant.)—A beautiful ornamental foliage plant for planting in open border, or in shaded position; leaves 4 to 8 inches in diameter, of thick, leathery texture, dark green with bright yellow spots. Each 15c.

## FEVERFEW

**LITTLE GEM.**—Is a vigorous, strong-growing plant bearing large clusters of unusually large flowers, which are pure snowy white without any yellow shading or center. Fine for bedding, or for cemeteries, producing a succession of bloom. Each 10c, dozen 75c.

## FORGET-ME-NOT

Everyone loves the charming little Forget-Me-Not and it seems strange that it is not more often seen in our gardens. They are easily grown and will bloom freely and thrive year after year. Each 10c, doz. 75c.

## GREVILLEA

**SILK OAK.**—One of the quickest growing of ornamental house plants. Easy to manage, grows rapidly and is pretty in all stages of growth. With its long, drooping, silky foliage, it reminds one of a palm or fern. Young growths are light bronze color, the tips covered with soft down resembling raw silk. Ea. 15c.

## GENISTA

**SHOWER OF GOLD.**—A most desirable plant. The drooping branches are covered with delicate sage-green foliage and every twig is tipped with a long raceme of exquisite pea-shaped blossoms of a pure canary color, almost hiding the foliage. Each 10c.



DRACENA INDIVISA



ELECTRIC LIGHT PLANT

MAKE A FLORAL RUG ON YOUR LAWN BY PLANTING VARIED COLEUS PLANTS AND TRIMMING THEM AS THEY GROW.



## FERNS

**FLUFFY RUFFLES.**—(Scholzei.)—A new upright growing variety, darker and richer in color than any other fern in our list. Fronds are as finely cut as the Whitmani or Elegantissima varieties, and exceeds either of these sorts in robust, hardy growth. The vigor, habit and color of this fern are so far superior to ordinary sorts that it will delight every lover of fine ferns. Each 25c.

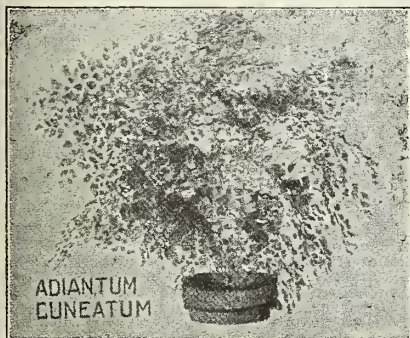
**BOSTON FERN.**—(Improved Sword Fern.)—This is a wonderfully healthy, rapid growing and graceful house plant which has been in great demand everywhere, and many people buy it in preference to the finest palms or rubber plants. Thrive in all rooms, gas or furnace heat does not seem to injure it. It is one of the most beautiful and useful of house plants, being of easy culture, and its sword-like fronds, on large specimens, attain the length of 5 to 6 feet, produced in bewildering mass, arching, curving and interlacing in every conceivable direction. Each 15c; large plants 25c and 50c.

**ROOSEVELT.**—An improved variety of Boston Fern, much more striking and attractive than the parent sort. It produces a greater number of fronds than the Boston, appearing more compact, bushier and handsomer. Fronds have undulating pinnae, giving them a wavy appearance not seen in any other fern. Very highly recommended by experts for its hardiness and beautiful appearance. It is our choicest recommendation of Boston Ferns for individual pot growing as an indoor decoration. Ea. 20c, large 50c.

**TEDDY, JR.**—A smaller fern than Roosevelt, but of same type and general characteristics. A fine, compact fern that will be popular because a fine specimen can be grown in much less space than any other of the Boston type. Each 20c.

**WHITMANI.**—Combining all the graceful pluminess and charm of Elegantissima, with additional features of shape, size and growth that give it distinction and added commercial value. Whitmani is of more dwarf growth, but equalizes matters by compactness, and a wider, stockier shape. The fronds, although even more fine-cut, are more erect and less liable to revert to the original Boston type. Each 20c; large 50c; extra fine specimens \$1.00.

**ELEGANTISSIMA.**—This is a sport from the well known Ostrich Plume fern in which the plummy peculiarity of the original form is even more distinctly developed, the side pinnae being again subdivided, making both sides of the frond equally beautiful, while at the same time the plant is of much more compact habit, growing only one-half as tall, but with fronds nearly twice as wide, making it a much more desirable plant for all purposes. They are quite rare. Each 15c; large plants 50c.



ADIANTUM  
CUNEATUM

**BABY'S BREATH.**—(Goodei.)—An elegant small Ostrich Plume fern. Fully equal to the best of this type in pluminess and graceful form, but far more dainty and exquisite. The bright color, feathery fronds and elegant form make it a very notable specimen in any collection. A variety of recent introduction which gives promise of great popularity. Each 15c, large 50c.

**ASPARAGUS FERNS.**—Both the Asparagus Plumosus Nanus and Sprengeri, commonly known as Asparagus Ferns, will be found illustrated and described on page 84.

### OSTRICH PLUME FERN COLLECTION

**BABY'S BREATH.**—Dainty Ostrich Plume fern of finest habit.

**ELEGANTISSIMA.**—More delicate and finely divided than the above.

**ROOSEVELT.**—The compact, wavy type of the original Boston or Sword Fern.

**SCHOLZEL.**—The compact, wavy type of the Ostrich Plume varieties.

ONE EACH FOUR FINE OSTRICH PLUME FERNS POSTPAID TO YOUR ADDRESS FOR ONLY 50c.

### DAINTY SMALL FERNS

**JAPANESE FERN.**—(Onychium Japonicum.)—A very graceful small variety growing in similar form to the well known Asparagus Fern. Each 15c.

**MAIDEN HAIR FERN.**—(Adiantum Cuneatum.)—Very popular. The most graceful and useful of all for cut flower work. Each 15c.

**HOLLY FERN.**—(Cryptomeria Falcatum.)—Rather broad, dark, glossy green foliage. Quite easily grown, very ornamental. Each 15c.

**MOSS FERN.**—(Selaginella Emilliana.)—Also called Lycopodium. Has delicate lace-like foliage. Fine for fern dishes and always beautiful. Each 15c.

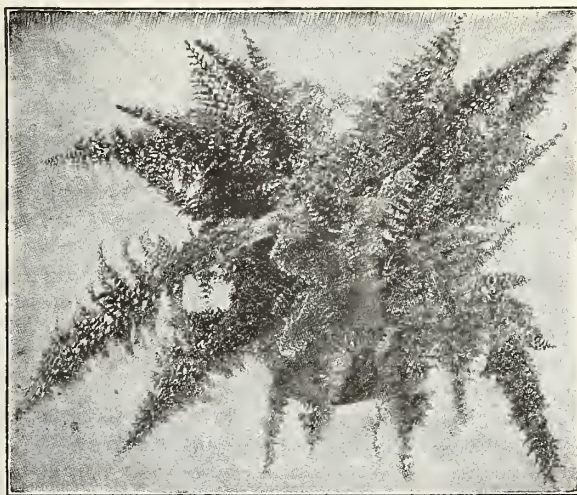
**CRESTED FERN.**—(Pteris Wimsetti.)—One of the most popular of the small ferns. Striking lanceolate foliage; upright growth. Each 10c.

**DAGGER FERN.**—(Aspidium Tsussimense.)—A miniature sword fern. Specially adapted to small ferneries or fern dishes. Each 15c.

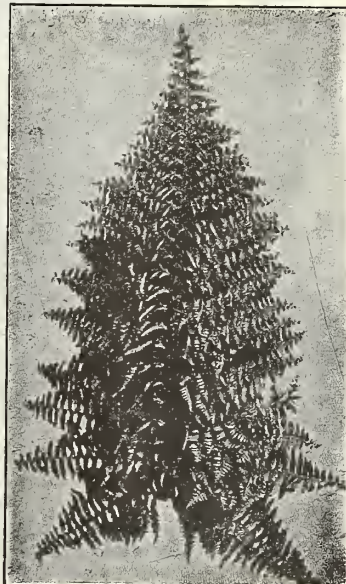
**SILVER FERN.**—(Pteris Victoriae.)—One of the newer sorts with lovely foliage, each leaf of which has a silver variegation through the center. Each 20c.

### DAINTY FERN COLLECTION

One each of the above seven fine table ferns, a most beautiful collection, only 75c.



FLUFFY RUFFLES FERN



FROND OF ELEGANTISSIMA FERN



ASPIDIUM  
TSUSSIMENSE



ONYCHIUM  
JAPONICUM



AIR PLANT

### AIR PLANT

An exceedingly beautiful green, feathery, plummy moss, prepared from dried seaweed. Has every appearance of a most delicate fern and retains its beauty and fresh appearance for an indefinite period. Is much used in small baskets and fern dishes, usually containing two to four bunches. Our stock is far superior to the grade commonly sold. Per bunch 25c; 3 bunches for 50c.





These, when in full bloom, are the most graceful of all cultivated plants; nothing surpasses the beauty of well grown specimens. The most important points in the management of the Fuchsia is to keep the plants well watered and nourished. They should be kept away from excessive sunlight and heat. They respond splendidly to strong fertilizing.

**PHENOMENAL.**—(See Cut No. 1.)—Enormous flowers, a single one measuring 3 inches across; sepals are bright scarlet, rich purple corolla, very double, flaked with red. Grows upright, and with strong, vigorous trunk, making a handsome plant. Each 10c.

**WHITE PHENOMENAL.**—(See Cut No. 2.)—Grandest double white variety in existence; should be in every home. Flowers are of enormous size, sepals bright carmine, with large, pure white, double corolla. Each 15c.

**TRAILING QUEEN.**—(See Cut No. 3.)—Of beautiful trailing habit, growing to the edge of the pot and drooping down. A well grown plant is a solid mass of beautiful foliage and flowers. Fine for hanging baskets. Bright, rich scarlet and purple flowers. Each 15c.

**F. COPPEE.**—(See Cut No. 4.)—This giant flowered variety comes from France, where the improvement of the fuchsia is given particular attention by a number of leading florists of that country. It is really a wonderful sort, producing blooms of exceptionally large size with superb coloring that attracts and delights the eye with its glorious hues. The tube and sepals are of bright, glowing crimson, while the corolla is of very rich violet purple, very double and widely extended. The plant is a strong, vigorous grower, making a handsome pot plant. Each 15c.

**GUSTAV NADAUD.**—(See Cut No. 5.)—Sepals very brilliant red, corolla double, purple. A giant flowered sort of unusual beauty. A strong, free grower. The picture does not adequately represent the contrast of this fine variety. It is hard to show difference in shade by black and white that will in any way convey the brilliant contrast of scarlet and purple that is the chief beauty of this flower. Each 15c.

**STORM KING.**—(See Cut No. 6.)—The standard contrasting variety with red sepals and double white corolla. The most popular type and this is the original form. Our illustration of a single flower gives but a faint conception of its great beauty. It is a general favorite and pleases everyone who loves fuchsias. Each 10c.

**BLACK PRINCE.**—Of upright and robust growth and generally most satisfactory of all fuchsias for the amateur, as it seldom fails to bloom profusely and grow to good form and symmetry. We once had a plant of this variety in our greenhouse that grew a perfect shaped shrub 7 feet high and was loaded with fully 2,000 blossoms at one time. Tube and sepals bright carmine, sepals large and broad with pale green tips; large, violet pink corolla. Each 15c.

**ELM CITY.**—A popular variety and one of the best; tube and sepals bright coral red; large double purple corolla; blooms all year. While perhaps not so brilliantly colored as some sorts, it is a lovely flower. The plant is more free flowering than any of the others except Black Prince, and when well grown is splendid in its great beauty. Each 10c.

**MONARCH.**—This is by far the largest of the single varieties. Its immense blooms are a very dark purple. Single fuchsias are most graceful and are preferred by many to the double varieties. In your home collection you should have one or more of the single varieties to complete the assortment and get full enjoyment from a diversity of forms and color. Each 10c.

**SPECIOSA.**—An old favorite, greatly prized for its profuse blooming qualities. Sepals of the flowers are more elongated than other sorts, and of soft, rosy pink color. Corolla is single form, carmine crimson color, making a beautiful and pleasing blossom. A well grown plant in bloom is a veritable flame of color, and the dainty flowers mingling among the glossy green foliage produces a graceful and charming effect. Ea. 10c.

**SUNRAY.**—A lovely plant, with pretty blossoms of delicate and pleasing colors, with added attractiveness of divers colored foliage. A novelty in the fuchsia family, because common varieties are wanting in the variegated foliage which adds so much to the beauty of Sunray. The colors of the sunset, clear yellow, golden bronze, and red, are combined in the most effective way to make a pretty house plant. Flower is pink or deep rose sepals with bright carmine corolla. Each 20c.

## FIVE FANCY FUCHSIAS 50c

A SPECIAL BARGAIN AT A BARGAIN PRICE

### THE PHENOMENAL COLLECTION

Includes the following five varieties, selected to give a wide range of types and colors in a few choice plants:

**PHENOMENAL.**—Scarlet and purple; has double flowers of immense size; good grower.

**WHITE PHENOMENAL.**—Scarlet and white, double flower; same type as Phenomenal.

**SUNRAY.**—A pleasing variety with variegated foliage. Distinct from all others. Adds attractiveness to the collection.

**BLACK PRINCE.**—Single flower; carmine and rose color; general appearance bright red. Shows less contrast than other sorts.

**SPECIOSA.**—Single extra long flower of pink and crimson. Different in form from others. Distinct in habit.

At regular catalogue values, these amount to 70 cents, but we want all our friends to have a fuchsia collection, so we offer these **FIVE PLANTS POSTPAID FOR ONLY 50c.**

The plants arrived last week and those received today are just as ordered and reached here in fine condition.—Mrs. Alex. Robinson, Bencia, Colorado.

I received the package of plants you so kindly sent me. Please accept my sincere thanks for them. They all look nice and fresh and I think they will grow. Yours respectfully—Mrs. H. H. Reinken, Watrous, New Mexico.



# SINGLE GERANIUMS

Geraniums are the most easily grown and satisfactory of all flower plants and only the rose can vie with them in popularity. We have about 200 varieties growing at our place and test a large number of new sorts every year. After careful comparison we have selected the following as the best:

**AUREOLE.**—(Mad. Bruant.)—Fancy flowered sort; remarkable colors. The plant is loaded with blooms and each floret is large, center being white and beautifully veined with carmine lake, radiating into a handsome aureole, each petal being bordered with bright solferino. Fine pot plant and a constant bloomer. Each 15c.

**ELECTRIC GEM.**—A fine variety, producing very large flowers on strong trusses. Color brilliant scarlet. Each 15c.

**ALICE OF VINCENNES.**—A charming novelty which has a border of intense scarlet forming a band around the body color of rosy pink, heavily veined scarlet; center white. Each 10c.

**BIRD'S EGG.**—(Abel LeFrance.)—Our magnificent geranium novelty. Flowers very large, perfect form. Ground color white, with rosy dots on lower petals. Foliage is slightly zoned. Grows finely. Each 20c.

**BON TON.**—One of the new scarlet sorts of special merit. Dwarf grower and very free flowering. Has beautiful foliage with light shading. Each 20c.

**BARIOLEGE.**—Dwarf, vigorous growing and free flowering variety. A beautiful composite flower. Color is rose, lower petals blotched crimson, the upper are blotched white. Each 20c.

**BLACK PRINCE.**—A very dark, rich, velvety crimson. The nearest black known in single geraniums. Each 10c.

**SNOW QUEEN.**—The grandest single pure white geranium in existence. It is of vigorous and healthy growth; blooms profusely, plant being loaded with immense trusses of bloom; do not turn pink even in sunny weather. Each 15c.

AUREOLE

**GEN. LEONARD WOOD.**—One of the best of the single geraniums. Plant strong and vigorous. Flower bright carmine crimson, with white center. The general effect is very beautiful. Each 15c.

**MRS. E. G. HILL.**—A most distinct and pleasing shade of salmon with light shading at the center. Florets are extra large, and the plant is of splendid habit and vigorous growth. It is a standard variety because of excellence. Each 10c; doz. \$1.00.

**PAMELA.**—An English round-flowered sort of unusual strength and vigor. Handsome and distinct. Flowers have pure white center, shading to a distinct margin of crimson rose. Very large trusses of large round flowers are produced freely. Each 15c.

**PHOEBE.**—A dwarf, compact growing sort, extremely free flowering, seemingly every joint producing a spike of bloom. Color deep rose. It is its free flowering habit that renders it so popular, although the color is also an attractive feature. Each 15c.

**RICHMOND BEAUTY.**—A magnificent new single variety. Color crimson scarlet with large white feather in two upper petals. Each 15c.

**RADIUM.**—Most magnificent, well formed flowers, produced in enormous trusses in the greatest profusion. The color is a brilliant shade of orange scarlet; very effective when massed in beds; foliage large and of fine texture; habit splendid, luxuriant, branching, and robust. Certainly one of the best. Each 15c.

SOUVENIR DE MIRANDE

**MAXIME KOVALEVSKI.**—A brilliant orange. A fine growing plant and probably the best of the single varieties for pot culture. The flowers are round, of splendid form. A novelty of great beauty. Each 20c.

**SOUVENIR DE MIRANDE.**—Handsome and most satisfactory. Nicely formed, round florets; upper petals cream white, with distinct salmon rose border; lower petals salmon rose streaked with pure white. Free flowering; splendid blooms. Each 10c.

**TELEGRAPH.**—A splendid flower of apricot pink shaded cerise pink, with white eye. The general effect of color combination is very pleasing. Plant is very desirable in vigor and habit of growth. Each 15c.

**YVETTE PROST.**—Fine large flowers and strong trusses. Color violet rose shading to white center. A very striking and beautiful blossom. Good habit, vigorous grower, and generally very satisfactory. Each 15c.

SEE PAGE 102 FOR SPECIAL GERANIUM OFFER.

## TRICOLOR GERANIUM BED

One dozen each of three shades of color, consisting of standard sorts that will stand the sun and produce continuous bloom all summer. We will send one dozen double white, one dozen double pink and one dozen double red, we to choose the varieties, but we will give you only such as will prove satisfactory. Planted closely, the pink in the front row, white next, and the red forming the background, you will have a gorgeous bed of flowers.

36 plants as above from 2½-inch pots, \$2.25, postpaid, or \$1.80 by express, not prepaid. The same in larger plants from 4-inch pots, by express, not prepaid, \$4.00.

## HOUSEHOLD GERANIUM COLLECTION

A selected list of choice single geraniums. One plant each of Black Prince, scarlet; Mrs. E. G. Hill, salmon; Maxime Kovalevski, brilliant orange; Snow Queen, pure white; Alice of Vincennes, pink; Pamela, rose; a half dozen different shades, only 60c.

## FAVORITE DOUBLE GERANIUM COLLECTION

LaFavorite, Beauty Poltevin, Double Dryden, S. A. Nutt, Apple Blossom, Trego and Mrs. F. Perkins.

One each of the above, giving a range of colors in the standard sorts which are universal favorites, for 60c, postpaid. This collection from 4-inch pots, large plants, by express, not prepaid, for only \$1.00.

BARIOLEGE

THE GERANIUMS LISTED IN THIS CATALOGUE ARE INEXPENSIVE. AND OUR LIST IS THE CREAM OF KNOWN VARIETIES.



## DOUBLE GERANIUMS

**APPLE BLOSSOM.**—(Mrs. Lawrence.)—Shining salmon, tinted white. Free flowering; dwarf, compact habit. Extra fine as pot plant. Ea. 15c.

**ALPHONSE RICARD.**—Bright vermilion scarlet; trusses strong and upright. Free bloomer and of special merit for both pots and bedding. Each 10c.

**ALPINE BEAUTY.**—A most beautiful semi-double variety with pure white flowers. One of the finest in the list, both in habit of growth and freedom in blooming. Each 15c.

**BEAUTY POTTEVIN.**—A great favorite and conceded one of the best semi-double bedding sorts. Color salmon pink, shading to clear salmon in the center. Each 15c.

**BERTHA DE PRESLEY.**—A beautiful light pink. Stands the sun without fading. Will be sure to give satisfaction, either for beds or in pots. Each 15c.

**BRIGHT SPOT.**—A bright, dazzling scarlet. The most flaming color among the solid reds. Fine for bedding. Each 20c, dozen \$1.75.

**DAGATA.**—One of the finest new pink varieties of Bruanti. The plants are dwarf, robust growers and compact. Magnificent large flowers of mauve pink on immense trusses. See special offer by the hundred at bottom of page. Each 15c, dozen \$1.20.

**DAYBREAK.**—The finest pink geranium offered in our catalogue. We commend it as a bedder or as a specimen plant for home collection. See special collection offered on page 102. Each 15c, dozen \$1.50.

**DR. PHILIPPE TISSIE.**—Fine white center, outer edge of petals light crimson. Striking in its beauty, growth and habit. Each 15c.

**DOUBLE DRYDEN.**—Color combination very attractive. Center coral white, shading lilac to edge of petals, which are soft, glowing crimson. Choice as a pot plant. Ea. 15c.

**FIRE DRAGON.**—A cactus flowered scarlet novelty. Ea. 15c.

**GLORY DE FRANCE.**—A large round flowered double geranium of waxy appearance. Petals white, veined with carmine rose. Each 15c.

**EL CID.**—This is a particularly choice sort for bedding. The flower is double, of fine form and borne on strong trusses. Color is bright scarlet, a rich, dazzling shade. Each 10c; doz. \$1.00. By express, not prepaid, 100 for \$5.00.



ALPINE BEAUTY

**JEAN VIAUD.**—Color a bright, rosy pink; distinct white blotch in center. Large, semi-double blooms on strong trusses, above the foliage. Each 15c.

**JULES VASSEUR.**—Semi-double. Vermilion scarlet with distinct white eye. A new variety of promise. One of the best of this type. Each 15c.

**IMPROVED LA FAVORITE.**—What S. A. Nutt is among dark crimsons, La Favorite is among whites; the best double white geranium. It is a strong grower and a profuse bloomer. Each 10c, doz. 85c. By express, not prepaid, 100 for \$5.00.

**LEOPOLD BOUVILLE.**—Composite semi-double form. Color is bright solerino red, richly shaded bright carmine and purple; distinct white center. Ea. 15c.

**MARVEL.**—A bright scarlet; larger than S. A. Nutt, and counted one of the best bright red geraniums. Fine for mass bedding or to add the necessary

bright red in mixed beds. Splendid grower; free bloomer. Each 15c.

**MARQUISE DE CASTELLANE.**—Flowers are very large, perfect in form and borne in large trusses. The color varies from a brilliant cerise to bright cherry red, with brilliant carmine shadings. Ea. 15c.

**MRS. F. PERKINS.**—A double pink sort of unusual merit. Sturdy habit, free bloomer, and stands the summer sun without fading. A standard sort and very popular. Each 10c, dozen 85c.

**SCARLET BEDDER.**—Type of S. A. Nutt, but color is brighter and is preferred by some planters. The name indicates its particular value, and we recommend it. Each 10c, dozen 85c. By express, not prepaid, 100 for \$5.00.

**S. A. NUTT.**—The best crimson. Takes the lead as a bedding variety, being used in the largest parks and public grounds of the country in preference to all others. Its dense, compact growth, profuse blooming qualities and sun-proof constitution combined give it the prominence as a bedder it has attained. As a pot plant it cannot be excelled. We sell thousands for borders and large beds. Each 10c, doz. 85c. By express, not prepaid, 100 for \$5.00. Large plants from 4-inch pots, by express, per dozen \$1.50.

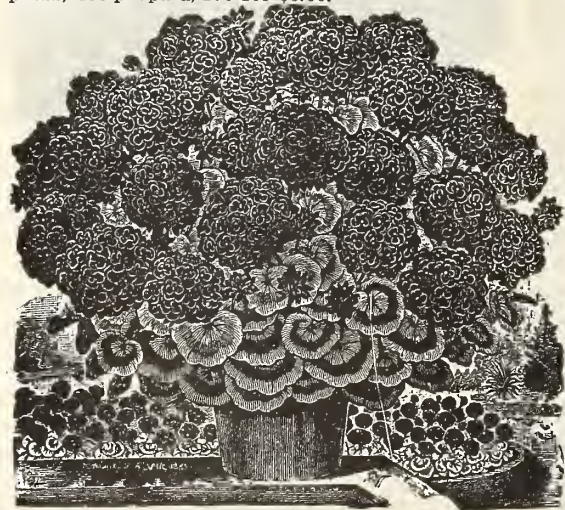
**TREGO.**—Strong growing, most free flowering. Robust, compact habit, regular in form. Trusses

of immense size, produced in profusion and borne upon stiff stems

above the foliage. Florets often measure 2½ inches in diameter, semi-double, brilliant, almost dazzling scarlet color. Each 15c, doz. \$1.50.



LA FAVORITE



SCARLET BEDDER

## GERANIUMS BY THE HUNDRED

Customer to pay express charges.

Fifty or More at the One Hundred Rate.

The customers can select from varieties named in this special offer in such numbers of each as wanted. If you cannot use 50 or 100, perhaps you can get a neighbor to take part of order. Descriptions under name as placed in the list. No other varieties are included in this special offer but the five varieties named here.

**S. A. NUTT, crimson double; BLACK PRINCE, crimson single; LA FAVORITE, white double; DAGATA, pink double; MADAM SALLERON, for edging.**

Just the varieties for outdoor bedding for single or mixed color effects, and in this offer you have the best possible opportunity to fill your beds at reasonable cost.

From 2½-inch pots, \$5.00 per hundred.

From 4-inch pots, \$10.00 per hundred.



GLORY DE FRANCE

NOTICE THE SPECIAL OFFER OF GERANIUMS ON PAGE 102. THESE ARE A FEW OF OUR CHOICEST KINDS IN A BARGAIN.



## FANCY LEAVED GERANIUMS

**GRACE PAGE.**—A splendid bedding variety which is identical with the old standard dark crimson S. A. Nutt geranium except in foliage, which is beautifully variegated. Nothing in geraniums can surpass the beauty of this variety with its large trusses of double crimson flowers against their variegated background. Of vigorous growth and an exceedingly profuse bloomer. Leaves are of dark green, and each bears a border of pure snowy white. Well adapted for pot culture. Each 20c, per dozen \$2.00.

**MRS. POLLOCK.**—Magnificent. Green leaf disc, overlaid by beautiful bronze red, belted with bright crimson, outwardly margined with golden yellow. Very distinct in its markings, and one of the most satisfactory of fancy geraniums. Each 15c.

**WM. LANGGUTH.**—This new silver leaved geranium is a beautiful variety. The plant is short, stocky growth, and the beautiful deep green leaves are bordered with a broad, pure snow white band, so that it is handsome even when not in bloom. It is, however, free flowering for a fancy foliage variety, and the flowers are double. Clusters are extra large and a bright red color, showing magnificently against the white foliage. Each 15c.

**MAD. SALLEROL.**—A very compact variety of silver leaf geranium. Fine for massing or bordering; thrifty; leaves green, edged with white. Has a peculiar manner of growth which renders it of special value for edgings or ribbon work. Each 10c, dozen 85c.

**CRYSTAL PALACE GEM.**—Yellow, with green disc; fine bedder. One of the oldest of the fancy leaved sorts, but popular because of the brightness of the foliage. Each 10c.

**MOUNTAIN OF SNOW.**—Finest of this class for ribbon lines or massing; center of leaf bright green, margin broadly marked silver white; single scarlet flowers. Each 10c.

**DISTINCTION.**—Round green leaves with clear black circle. This dark foliage sort is fine in contrast planting among the silver leaved varieties. Each 10c.

**HAPPY THOUGHT.**—A tricolored geranium with dark green foliage; creamy white center with dark band about the light zone; flowers bright scarlet. Each 10c.

**GOLDEN CIRCLE.**—Green foliage; golden yellow edging; flower scarlet. Each 10c.

**MRS. PARKER.**—A grand new silver leaved variety with double pink flowers. A unique novelty. It is a good bloomer and foliage is fine combination in the markings of green, bronze and white. Each 20c.

**HAPPY THOUGHT COLLECTION.**—Happy Thought, Golden Circle, Mad. Sallerol, Crystal Palace Gem, Mountain of Snow, Distinction. Six of the finest fancy leaved sorts in splendid contrast for only 50c, postpaid.

**FRAGRANT COLLECTION.**—Nutmeg, Rose, Balm, Pepper, Lemon and Skeleton. A half dozen of the sweetest of the scented varieties for only 50c, postpaid.

**IVY LEAF COLLECTION.**—Caesar Franck, Jean DeArc, Chas. Turner, Eden Marchi. One each of the four choicest ivy leaf varieties for only 45c, postpaid.



WM. LANGGUTH GERANIUM

### SCENTED GERANIUMS

**LADY PLYMOUTH.**—A beautiful variegated variety of the Rose Geranium. Propagates slowly and the demand usually exceeds the supply. Each 20c.

**NUTMEG.**—Small leaves with nutmeg perfume.

**OAK LEAVED.**—Beautiful foliage resembling oak leaves, black center with green border.

**ROSE SCENTED.**—The broad leaf. This is the most popular of scented geraniums.

**SKELETON LEAVED.**—Leaves very finely cut, rose fragrance.

**BALM.**—Delicious balm fragrance.

**LEMON.**—A nice little plant of bushy growth with delightful lemon fragrance to the leaves.

**MRS. TAYLOR.**—A scarlet flowered rose geranium. The blooms resemble the pelargonium, but are smaller and of bright scarlet color. Blooms constantly.

**PEPPER.**—Strong fragrance, moderate size leaf, easily grown.

**PEPPERMINT.**—A rare variety with thick "hairy" leaves and refreshing peppermint fragrance. It is one of the most popular of the scented geraniums. Each 25c.

Any of the above sweet scented varieties 10 cents each \$1.00 per dozen, except where noted.

### IVY LEAVED GERANIUMS

**CAESAR FRANCK.**—Double as a Crimson Rambler rose. Specialists claim this to be the best Ivy Geranium. Color soft, rich crimson scarlet, shaded rose at base of petals. Foliage clean, waxy green. Vigorous, quick growing and strong. Finest for baskets, vases, etc. Each 15c.

**JOS. WARREN.**—A very beautiful flower of distinct color. Large flowers of composite lilac tint. Each 15c.

**MRS. HAWLEY.**—Flowers semi-double, bright pink with dark blotch on upper petal. An excellent growing variety. Each 15c.

**ETINCELENT.**—Beautiful scarlet; extra large flowers. Very double and will be satisfactory. Each 15c.

**EDEN MARCHI.**—Handsome of the ivy leaved sorts. Has enormous sized flowers; color beautiful salmon rose, slightly shaded violet. It is an improvement on the Charles Turner. It is a strong, free grower, producing flowers at almost every joint which are full double and perfect in form. Each 15c.

**CHARLES TURNER.**—Very double, and is without doubt one of the handsomest ivy geraniums ever introduced; florets two and a half inches across. The color is a deep, bright pink, approaching scarlet in color. Each 15c.

**JEAN D'ARC.**—Very large and finest white in existence. Perfectly double, white as snow; flowers literally cover the plant when in full bloom. Each 15c.

**P. CROZY.**—A hybrid between the Zonales and Ivies. Color soft, bright scarlet with veinings of maroon. Each 10c.

**CORDEN'S GLORY.**—Fine, bright scarlet; large, bold, full flowers; constant bloomers; one of the very best. Each 15c.

**ALLIANCE.**—A beautiful novelty. A hybrid between an ivy and a zonal geranium. Flowers large, semi-double and produce fine trusses. Exquisite shade of very pale pink turning to pink in some. Upper petals feathered and blotched rich crimson maroon. Ea. 15c.



IVY GERANIUM—EDEN MARCHI. (One-half natural size.)  
MANY OF THE MOST POPULAR VARIETIES OF GERANIUMS WILL BE FOUND ON THIS PAGE. EXCELLENT VALUES OFFERED.



## HELIOTROPE

These are universal favorites on account of their delightful fragrance. They bloom equally well as bedding plants in summer, or as pot plants in the house during the winter.

**BUISSON FLEURI.**—Semi-dwarf. Very large trusses of large flowers. Color violet; star-shaped eye. Each 10c.

**PRINCE CHARMANT.**—Beautiful foliage and large trusses of mauve blue flowers. A novelty of merit. Each 15c.

**LORD ROBERTS.**—Very large trusses of blue flowers. Each 10c.

**JERSEY BEAUTY.**—Very large trusses of blue flowers. Ea. 10c.

**SNOW WREATH.**—Superb large cluster of deliciously fragrant flowers, nearly white. Each 15c.

## HELIOTROPE COLLECTION

The fragrance of these lovely blossoms will perfume the whole house.

One each of the five varieties named above for 50c.

## HIBISCUS

**GRANDIFLORA.**—A large, shrub-like, woody plant bearing immense single red flowers. Each 15c.

**PEACHBLOW.**—One of the finest free flowering plants for either pot culture or the open ground. Flowers very large, double and of a charming rich, clear pink, with deep crimson center. Does not always appear double when first in bloom, but as the plant ages it takes on the double form. Each 15c.

## ICE PLANT

Interesting from being covered with ice-like crystals. The flowers are very pretty. Ea. 10c.



PEACHBLOW HIBISCUS



PRINCE CHARMANT HELIOTROPE

## HARDY HYDRANGEAS

Described as shrubs on page 113.

**ARBORESCENS.**—The new Snowball Hydrangea. Each 15c, large 35c.

**PANICULATA GRANDIFLORA.**—The well known hardy sort. Each 10c, large 30c.

## IRISH SHAMROCK

The true Irish Shamrock, the poetic plant of Irish history. Resembles clover in shape of leaf. Does well when grown either in the open ground or in pots, and its neat foliage is quite attractive. Each 10c.

## IMPATIENS

**SULTANA.**—Beautiful plant producing waxy, bright flowers of rosy scarlet almost continuously, winter and summer; suitable for pot or garden culture. Compact growth; almost a perpetual bloomer. Each 10c.

**HOLSTII.**—Strong, robust growing sort with brilliant vermilion colored blossoms. One of the best. Each 15c.

**PINK BEAUTY.**—Well named, color being a most beautiful shade of clear pink. Ea. 15c.

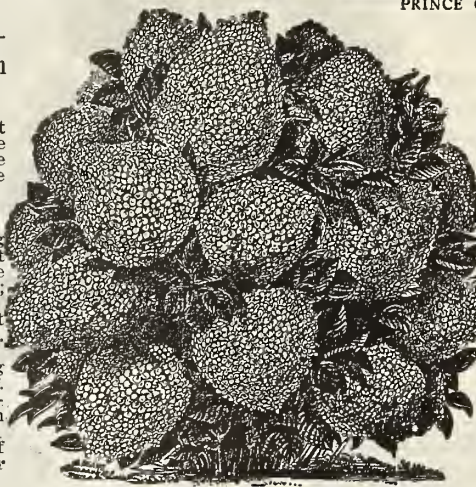
**WHITE LADY.**—Fine pure white; completes list and adds the necessary shade in desirable contrast. Each 15c.

**IMPATIENS COLLECTION.**—One plant of each of the above four fine varieties for only 40c, postpaid.



IMPATIENS

SULTANA



HYDRANGEA PANICULATA GRANDIFLORA

## JASMINE

**MAID OF ORLEANS.**—A beautiful plant of easy culture, fine grower, good bloomer, very fragrant and of elegant waxy white appearance. Each 15c.

**NIGHT BLOOMING.**—(Cestrum Parquii.)—World famous variety, producing greenish white flowers incessantly. Strongly fragrant after dark. Each 15c.

**CAPE JASMINE.**—(Gardenia Florida.)—A pretty, low growing evergreen shrub. Thick, glossy green leaves, waxy white double flowers of delicious sweetness; valued for winter flowering in house or conservatory. Each 20c.

**GRANDIFLORUM.**—An old favorite variety and most satisfactory. Valuable for winter blooming. Flowers white, star-shape. Fragrant. Each 15c.

**REVOLUTUM.**—A climbing variety with deep yellow single flowers and glossy foliage. A beautiful plant and readily grown. Ea. 15c.

One each of the five Jasmines named above, only 50c.

## JERUSALEM CHERRY

An old-fashioned plant grown for its showy, berry-like fruits which remain on the plant for a long time. Used generally in window gardening but will grow quite large if given room. Each 15c.

## POT HYDRANGEAS

**OTAKSA.**—A Japanese variety used extensively for Easter decorations. It produces enormous trusses of intense pink flowers. Make excellent specimen plants for the porch or lawn. Blooms the entire season. Each 15c, large 50c and 75c.

**THOMAS HOGG.**—Its immense trusses of flowers are at first slightly tinged with green, and change to purest white. Ea. 15c.

## FRENCH HYDRANGEA

**AVALANCHE.**—Splendid large white flower. Easy to grow; remarkably free flowering. Ea. 15c.

**LA LORRAINE.**—At first pale rose, turning to bright pink. Large blooms. Each 15c.

**MME. E. MOULLERE.**—White of extra size. Awarded medal at National Flower Show at Boston. Each 20c.

**MOUSSELINE.**—Light amber pink turning brighter as flower ages. Extra size. Each 20c.

**E. G. HILL.**—One of the finest pot hydrangeas. Superb in every way. Color white. Ea. 20c.

**FIVE FRENCH HYDRANGEAS, 75c, POSTPAID.**



NIGHT BLOOMING JASMINE





### MARGUERITE DAISY

**WHITE.**—A French improvement on the old White Marguerite which has for years been so popular. Is much larger and will produce ten times as many flowers. All flower lovers should try a few of these. Each 10c, dozen \$1.00.

**BLUE.**—(Agatha.)—A strikingly beautiful flowering plant, producing abundance of clear sky-blue flowers. Plants are fairly loaded with flowers, which are very desirable for cutting. Each 10c.

**MRS. F. SANDER.**—A superb new variety of double white Marguerite, so lovely as to become a firm favorite wherever known. Owing to its continuous, free blooming habit, beautiful lasting blooms on long stems, it is peculiarly desirable on beds or for use as cut flowers. Each 15c.

**SOLIEL D'OR.**—A very popular sort with flowers of a very pretty canary yellow color. It blooms freely and continuously. Each 10c.

**QUEEN ALEXANDRA.**—A great improvement on the White Marguerite, having larger flowers, which are produced in greater abundance, many flowers coming perfectly double. Ea. 15c, doz. \$1.25.

### OXALIS

**GOLDEN STAR.**—(Origiesi.)—A shrubby plant about 12 in. in height, branching freely, bearing clusters of golden, star-shaped flowers. Each 15c.

**BOWIET.**—An elegant species; is from the Cape of Good Hope. Very large, deep flowers. Each 10c.

**LASIANTRA and DIEPPI.** sold as dry bulbs and used for massing or borders, are offered among summer flowering bulbs, page 82.

### OLEANDER

These old-fashioned shrubs are becoming popular again. No plant makes more handsome specimens in tubs for verandas or in the yard. The flowers are usually double when mature.

**ROSEA.**—Large pink flowers, borne profusely. A popular sort. Each 25c.

**LILLIAN HENDERSON.**—Flower is pure white; fine, sturdy plant. Each 25c.

**LUTEA.**—The comparatively rare yellow-flowered variety. Each 25c.

One plant each of the three colors, 60c.  
Large plants of either variety by express, not prepaid, each 75c.



LOBELIA

### PANDANUS

**UTILIS.**—A splendid decorative plant somewhat resembling a palm. Unusually attractive as an ornament for the window because of its glossy, dark green, serrated foliage. Makes a fine plant for the lawn in the summer when well grown. Each 25c, large 50c.

### PANSIES

Pansy plants are quite a specialty with us and we sell immense numbers of them every year. Our plants are grown from the very best quality of seed and are strong and vigorous and have beautiful, large, velvety flowers of all shades and colors known in pansies. Extra large, strong plants of **American Giant** and **International** Mixed at 50c per dozen, 4 dozen for \$1.50, postpaid. **Choice Bedding** Mixed, dozen 30c, 4 dozen \$1.00, postpaid.

### LANTANA

We consider this one of the most satisfactory plants grown. It is the flower for everybody, both for outdoor bedding and blooming all winter in the house. It has a flower somewhat resembling the Verbena, borne on a woody, bush-shaped plant. The flowers embrace all shades of orange, sulphur, lilac, red, pink, white, etc., changing from one distinct color to another as they increase in age and development.

**JAVOI.**—The best, largest and freest blooming white variety. Everyone will be pleased with it. Each 15c.

**PERFECTION.**—The only Lantana having variegated foliage. Is unusually handsome. Outside row of florets are pink with rose center; inside florets very light sulphur yellow; orange center. Blooms freely. Each 10c, dozen \$1.00.

**GOLD CUP.**—A dwarf, compact grower, with very pretty lemon yellow flowers, having golden yellow center. Recommended for its fine form and masses of bloom. Each 10c.

**WEeping.**—A beautiful trailing variety; is very desirable for planting in hanging baskets, vases, pots or open ground. Bears an immense profusion of lovely clear pink flowers from early summer until late fall. Everyone is delighted with it. Each 15c.

**RADIATION.**—Semi-dwarf. Color brilliant red with orange yellow center. Distinct and beautiful blending of color. Each 15c.

**AMIEL.**—Semi-dwarf, very compact; fine bloomer; umbel and floret fine size. Color reddish orange with yellow center. Recommended for its fine form and masses of bloom. Each 10c.

**VERSICOLOR.**—When first open flower is cream yellow with red center. Cream gradually changes to pink, but the flower is fine at all times. Each 10c.

**LEO DEX.**—A fine grower. Has large round leaves and a fine flower of purple red. A most desirable variety. Each 10c.

### RADIANT LANTANA COLLECTION

This is a collection which will please any lover of bright flowers. The perfect blossoms in fine variegation are certainly beautiful.

**RADIATION, JAVOI, AMIEL, PERFECTION and WEeping LANTANAS,** one each of the five shades of color for only 50c, postpaid.



AMIEL LANTANA

### LEMON VERBENA

A universal favorite, invaluable for its fragrant leaves. They will retain their fragrance for years when dried. Very popular with the ladies for storing with handkerchiefs or other apparel to which it imparts in some measure its delicate fragrance. A splendid plant for hedges and as a plant for the garden or for pots it is equally valuable, its fine sprays of foliage and delicious fragrance making it desirable for bouquets, etc. In good rich soil each plant will cover a space of three to four feet in diameter. Each 10c; doz. \$1.00.

### LOBELIA

**KATHLEEN MALLARD.**—A most beautiful variety of Lobelia because of the double form of the flower and its freedom of bloom. Blue flowers are comparatively few, but splendid color effect will be secured if this Lobelia is used as the color is bright and strong. Each 15c; doz. \$1.25.

In shipping plants by express, at customer's expense, we leave the dirt on the roots unless you instruct us to the contrary.



INTERNATIONAL MIXED PANSIES





PANSY GERANIUM

**PANSY GERANIUM**

Beautiful flower belonging to the Pelargonium class. Flowers are of medium size and have white throat. Each petal is shaded toward the center with a rich lavender pink and a dark maroon blotch in the center. Of easiest growth, dwarf in habit and literally covered with flowers, and as it requires little or no attention it is invaluable as a window plant. Colors and markings most extraordinary. Ea. 20c.

**PELARGONIUMS**

Commonly known as Lady Washington geraniums, and the improved large flowering sorts are undoubtedly the most beautiful of all geraniums.

**MRS. ROBERT SANDIFORD.**—A grand double white variety; flowers are extra large, perfectly double and beautifully laced and ruffled. Each 20c.

**MAD. VIBERT.**—Very beautiful; large flower with black-maroon blotches, bordering fiery red, and the entire flower being edged with rose. A very vigorous grower and free bloomer. Each 20c.

**DOROTHY.**—Beautifully fringed variety. Flowers very large; rosy salmon with dark maroon blotch on upper petals, richly shaded with plum color around the throat. Light and attractive in appearance. Ea. 20c.

**MME. THIBAUD.**—White, richly blotched rose. The upper petals marked crimson with large white center. Petals are heavily ruffled. Each 20c.

**LADY WASHINGTON COLLECTION**  
One each of the above fine Pelargoniums, postpaid, for 60c.



**FANTASY**  
**DOUBLE PETUNIA**  
purple petunia. Striking variegation. It is really beautiful. Each 15c.  
**PINK BEAUTY.**—Although many shades of pink in this flower, the general effect is a bright, pleasing pink. Color lighter in shade from center to outer edges of petals. This shading adds greatly to its beauty. Each 15c.  
**SNOW QUEEN.**—Elegance and purity are the impressions most strongly conveyed by this lovely flower. Unsurpassed in beauty of form, and the dainty fluffiness never fails to delight the eye. A never-ending succession of pure white flowers. Each 15c.

**PALMS**

The most elegant and highly decorative of all plants and the low prices at which they are now offered place them within reach of all. Following are most desirable for ordinary indoor culture.

**LATANIA BORBONICA, or Fan Palm.**—One of the most popular varieties grown, prized especially for its beautiful large fan-shaped leaves of deep glossy green. The character leaves appear the second year. Each 25c.

**KENTIA BALMOREANA.**—This is considered one of the hardest and best in cultivation. A rapid grower. Ea. 25c.

**ARECA LUTESCENS.**—A truly graceful and beautiful palm. Strong, upright grower with long, finely cut leaves. Easy to grow and very satisfactory. Each 20c.

**PHOENIX CANARIENSIS.**—A popular sort and will be found a desirable member of the palm collection. The leaves are feather-like. Each 20c.

**KENTIA FOSTERIANA.**—A fine variety of the Kentia class. Vigorous and will prosper with ordinary care. Ea. 20c.

**PALM COLLECTION**

One each of the first five stately palms for 85c, postpaid. We can furnish fine, large specimen plants of any of these varieties, by express, not prepaid, at \$1, \$2 or \$3 each, according to size desired.

**PHOENIX ROEBELINA PALM.**—Popular for room decoration. Is of vigorous growth and its graceful, recurving leaves with very narrow, dark green pinnae give it a lightness and airiness not surpassed. Large size by express, not prepaid, ea. \$2.

**CYCAS REVOLUTA.**—(Sago Palm.)—Magnificent plants of noble and majestic habit, and most impressive. Strong young plants 50c each, postpaid. Large specimen plants \$1.00, \$2.50, \$5.00, \$10.00 and \$15.00 each, according to size, by express, at purchaser's expense.



Peperomia.

**PEPEROMIA**

**SILVER STRIPED.**—A beautiful ornamental pot or basket plant for the home. Grows vigorous and thickly massed. The leaves are wax-like, thick and fleshy, and distinctly variegated white and green. Easily grown and will thrive in any ordinary living rooms. Each 15c.

**DOUBLE PETUNIAS**

The Double Petunias are extremely popular because of the striking contrasts in the colors of each flower and because they are always in bloom. Difficult to grow from seed as they produce only a percentage of double blossoms, while if plants are purchased they will invariably prove satisfactory. Equally desirable for bedding or indoor blooming.

**CLIO.**—A splendid shade of purple. The flowers extra size, of nearly solid color and extremely striking appearance. Each 15c.

**FANTASY.**—Handsome double white and purple petunia. Striking variegation. It is really beautiful. Each 15c.

**PINK BEAUTY.**—Although many shades of pink in this flower, the general effect is a bright, pleasing pink. Color lighter in shade from center to outer edges of petals. This shading adds greatly to its beauty. Each 15c.

**SNOW QUEEN.**—Elegance and purity are the impressions most strongly conveyed by this lovely flower. Unsurpassed in beauty of form, and the dainty fluffiness never fails to delight the eye. A never-ending succession of pure white flowers. Each 15c.

CHOICE PLANTS OF PELARGONIUMS AND PANSY GERANIUMS ARE POPULAR FOR USE IN THE WINTER WINDOW GARDEN.

LATANIA BORBONICA PALM  
**PLUMBAGO**

**CAPENSIS.**—There is no plant in our greenhouse that has caused more exclamations of delight than these beautiful, heavenly blue Plumbagos. They are most excellent pot plants, flowering freely at all times of the year. Flowers are borne in large clusters and are exceedingly beautiful in color. They are of very easy culture, growing in any situation as freely as geraniums. Each 10c.

**CAPENSIS ALBA.**—The white variety of the above, with which it is identical except color. Ea. 10c.

**PRIMROSE**

**MEXICAN.**—A perpetual bloomer. Has blossoms 2 to 3 inches across, of beautiful colors. Each blossom keeps perfect many days before fading, and when it droops others are out to take its place. Each 10c.

**OBCONICA.**—A lovely perpetual blooming primrose. Flowers of rose lilac shading to white. Ea. 15c.

**CHINESE.**—Most popular flower for winter blooming. Our cut gives an idea of its wondrous beauty. The flowers are all shades of color; distinct and beautiful markings. Each 15c.

**THE BABY.**—(Primula Forbesii.)—Forms a dense rosette of fleshy leaves from which spring flowering stems, 12, 15 and even 20 in. tall, supporting three tiers of whorls of dainty flowers of a delicate rosy lilac with eye of pale gold; not more than a half inch in diameter, but produced abundantly. Each 10c.

ONE EACH, 4 PRIMROSES, 40c.



CHINESE PRIMROSE



**RUBBER TREE**

(Ficus Elastica.)—This is the true rubber tree from which is secured the rubber of commerce. Grows slowly in temperate climate, and under artificial conditions, and is adapted for house or conservatory. Highly valued everywhere for their tropical appearance. Leaves very large, thick and leathery and of a beautiful shining green color. It endures the dry air of living rooms remarkably well. Everybody likes it. They are difficult to propagate and will remain high in price. Each 50c, postpaid. Larger sizes \$1.00 and \$1.50, by express, not prepaid.



OTAHEITE ORANGE

**OTAHEITE ORANGE**

An extra fine plant, with glossy green leaves, the true fragrant orange bloom, and abundant little bright oranges that will hang on the little bush like balls of gold for six months after they are ripe. With good culture they are never out of fruit from one year's end to another, and at least two-thirds of the time are in flower also. In beauty, grace and fragrance there is nothing like its delicate leafy sprays of bloom. Each 15c. Large size 50c each, by express, not prepaid.

*In shipping plants by express at customer's expense, we leave the dirt on the roots unless you instruct us to the contrary.*



RUBBER TREE

**PONDEROSA LEMON**

Nothing has ever caused half the commotion that this wonderful Lemon has. It is a true ever-bearing variety. On a plant six feet high no less than eighty-nine of the ponderosa lemons were growing at one time. It was a beautiful sight to see. The tree was blooming and at the same time had fruit in all stages of development, from the size of a pea to the ripe fruit, showing it to be a true ever-bearer. Blossoms are waxy white and as fragrant as orange blossoms. Fruit has been taken from the tree which weighed over four pounds. The lemons have a very thin rind for such a large fruit. It is the juiciest of all lemons and makes delicious lemonade; for culinary purposes it cannot be excelled. It is not uncommon to make twelve pies from one lemon. It fruits when quite small and makes a lovely house plant. It will fruit freely the second year. Strong plants ea. 15c, postpaid. Large two-year-old plants 50c each, by express, not prepaid.



PONDEROSA LEMON

**TROPICAL COLLECTION**

Four Fine Fruiting Plants for House Culture, only 55 cents.

Everyone is interested in the manner of growth of the tropical plants, and we offer above some of these which are suited for house culture, believing they will be popular.

Ponderosa Lemon, Otaheite Orange, Strawberry Guava and Surinam Cherry.

ONE STRONG AND THRIFTY PLANT OF EACH OF THE ABOVE FOR ONLY 55c, POST-PAID.

SURINAM  
DWARF  
CHERRY**SURINAM CHERRY**

A very ornamental plant at all times, as both flowers and fruits are attractive in color shades. Fruits are red color and are useful and desirable for culinary purposes. Growth of plant is shrub, like orange and lemon listed on this page, and readily grown in pots. Each 20c.

**STRAWBERRY GUAVA**

A useful and ornamental pot plant; wonderfully productive and will prove equally popular with the Lemon and Orange listed above. Has dark, shining green foliage, with fruits of striking claret shade, about the size of a hulled walnut. Fruit is used for dessert and makes a most attractive jelly. It will have buds, blossom and fruit in various stages of development on the plant at one time. Each 20c.

My Lemon Tree that I got of you has one lemon on it that measures 13 inches one way and 11 inches the other. It was a picture, everyone praising it.—Mrs. Charles Ebel, Madison, Minn.

Received the plants in good condition and was very much pleased with them. Have planted them and am sure they will grow.—Mary M. Schwartz, Reading Pa.

I have received the flowers. They were in good condition. Have set them out now.—Mrs. Jennie Pohler, Solon, Iowa.

The plants arrived this morning and I found them in good condition.—E. S. Rogers, Indianapolis, Ind.

I am much pleased with the plants you sent. They arrived in excellent condition and if they do not live it will be my own fault. Rose Dinsmore, which I got from you, is blooming beautifully. Yours truly —Mrs. Alice Booth, Austin, Man., Canada.



STRAWBERRY GUAVA

OUR TROPICAL FRUIT COLLECTION IS AN UNUSUAL OFFER AND WILL PLEASE THOSE WHO WANT SOMETHING DIFFERENT.





SANSEVERIA

## SANSEVERIA

**ZELANICA.**—There is scarcely a decorative plant listed that is more striking in appearance, and certainly none other that will stand as much downright neglect. It will grow in a dark, cool room or stand on the mantel in a heated sitting room. Will stand gas or dust and requires but little water yet remains thrifty as ever. Singularly beautiful, as well as easily grown. Erect, rigid, sword-like leaves, which are thick and leathery, dark green color, beautifully striped crosswise with white. Each 15c; large plants 40c.

## SALVIA

**MRS. CHAS. N. PAGE.**—One of the finest bedding plants; completely covered during summer and autumn with long spikes of dazzling scarlet flowers, remaining in bloom until frost. Each 15c; doz. \$1.50. Large size from 4-inch pots, each 20c; doz. \$2.00.

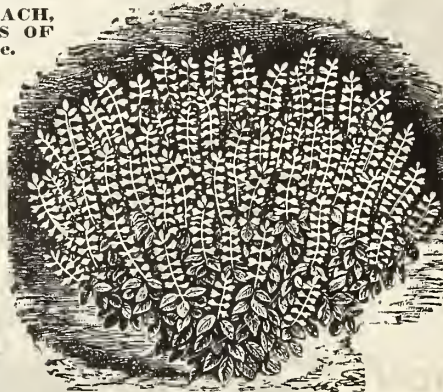
**IMPROVED SPLENDENS.**—Large, tall and fine, bright crimson flower and dark rich green foliage. Each 10c; doz. \$1.00.

**SNOWSTORM.**—A white flowered, tall growing variety. A few among a bed of scarlet salvias are unique. Each 10c; doz. \$1.00.

**PURPLE PRINCE.**—A beautiful purple shade of this popular flower. Fine for a mixed bed. Each 10c; doz. \$1.00.

**SILVER SPOT.**—Foliage green, spotted clear white; flowers bright scarlet. An attractive bedding plant. Ea. 15c; doz. \$1.25.

ONE PLANT EACH.  
FIVE VARIETIES OF  
SALVIA, FOR 50c.



MRS. C. N. PAGE SALVIA

## SWEET ALYSSUM

**DOUBLE.**—A double-flowering sort. Cannot be produced from seed. Each 10c, doz. 75c, 100 postpaid \$4.00.

**VARIEGATED.**—Flowers have grace and fragrance of the common alyssum. Foliage is variegated, making it specially pretty. Each 10c, doz. 75c, 100 for \$4.00, prepaid.

## BEDDING PLANTS

We grow bedding plants in enormous numbers to supply this branch of our trade, and we quote below special prices by the hundred. We will sell 50 or over of one kind at hundred rates. At these prices customers are to pay express charges, but as they go at special rates the cost will still be low for the quantity and quality received.

Your choice of colors, our choice of varieties.

	Per doz.	Per 100
Ageratum .....	.75	4.00
Alternanthera .....	.50	3.50
Alyssum .....	.50	3.00
Artemesia (Dusty Miller) ..	.75	4.00
Asters .....	.25	1.25
Begonias (Flowering) .....	.75	4.00
Begonias (Tuberous) .....	.75	5.00
Cannas (Growing Plants) ..	1.20	3.00
Cannas (Bulbs) .....	.75	5.00
Coleus .....	.60	3.50
Centaurea Gymnocarpa .....	.75	3.50
Feverfew .....	.75	4.00
Geraniums (2 1/2 inch) .....	.80	5.00
Geraniums (4 inch) .....	1.50	10.00
Heliotrope .....	.80	5.00
Lobelia .....	.75	4.00
Pansies (American Giant) ..	.40	2.50
Pansies (Internat'l Mixed) ..	.40	2.50
Pansies (Bedding Mixed) ..	.25	1.50
Pennisetum .....	.75	3.00
Roses (one year) .....	.75	5.00
Roses (two year) .....	3.00	20.00
Salvia (2 inch) .....	1.00	5.00
Salvia (4 inch) .....	1.50	10.00
Santolina .....	.75	4.00
Stevia Variegata .....	1.25	5.00
Verbena .....	.75	4.00

MAMMOTH  
VERBENAS

STEVIA  
SERRATA

## STROBILANTHE

**ROYAL PURPLE.**—An excellent bedding plant and a beautiful foliage plant for pot culture. Forms a compact bush 18 inches high, with leaves 6 to 9 in. long, of beautiful metallic purple, shading into light rose with a light green margin, a combination unapproached by any other plant. Flowers violet blue, borne in immense racemes. Each 15c.

## VERBENAS

Everybody likes Verbenas, as no one can help enjoying the sight of a nice bed covered with dark green leaves and brilliant blossoms. We have a large stock of the finest flowered varieties which bloom freely and are of the finest colors. We can furnish separate colors such as red, pink, white, blue, purple, striped, etc., or nicely assorted, just as you prefer, at 10c each, 60c per dozen. See outside cover page for special offer Mammoth Verbenas.



WHITE SWAINSONIA

## SWAINSONIA

**WHITE.**—Beautiful new climbing plant. The habit of growth is extremely graceful, and a plant trained up at the side of a window or on a trellis presents a lovely sight of light green, feathery foliage, and a splendid profusion of pure white sprays of flowers resembling Sweet Peas in form. Easily grown. Each 10c.

**PINK.**—A beautiful new sort, similar to above, except that the flowers are a clear pink. Each 15c.

## SEDUM

**STONE CROP.**—Small, low growing plants, desirable for rockeries or bedding. Popular with many persons for cemetery planting as it makes a mat of green on the lot. Each 10c, dozen 75c.

## STEVIA

**SERRATA.**—A pretty flowering plant. Largely grown by florists in pots for blooming in the fall and winter. Plants are of upright growth, 18 inches in height, producing numerous sprays of small white florets of delightful fragrance. Not hardy and therefore should be potted in the fall for winter blooming. Each 15c.

**VARIEGATED.**—A beautifully variegated green and white leaved variety of Stevia of great value for ribbon beds and borders. Each 15c; doz. \$1.25.

THE TWO STEVIAS FOR 25c.



STROBILANTHE





## HARDY WATER LILIES

The constantly increasing demand proves the coming popularity of aquatics. Their requirement is very simple, only sunshine, shallow water, and rich soil being necessary. Artificial ponds can easily be made or you can grow them in tubs or tanks. Most of the varieties are also adapted for growing in aquariums.

**WHITE POND LILY.**—The ordinary water lily which sometimes grows wild in western lakes and ponds. Its beauty, fragrance and delicacy make it much sought after and very popular. The flowers are pure white with yellow stamens, and too much cannot be said of its exquisite loveliness. It is not difficult to grow as it is indigenous to this section and perfectly hardy. Strong roots each 30c, dozen \$3.00.

**YELLOW POND LILY.**—(Nymphaea Flava.)—Has flowers of golden yellow color. Each 60c.

### POND LILY COLLECTION

One each of the following beautiful pond lilies by mail, postpaid, only \$1.40:

White Water Lily      Pink Pond Lily  
White Pond Lily      Yellow Pond Lily

**PINK POND LILY.**—(Nymphaea Odorata Rosea.)—This is the well known pink pond lily of Cape Cod. While not so hardy or productive as our western pond lily, the beauty of the flower, with its delicate coloring, make it a desirable variety, and even one blossom will repay the grower with its loveliness for the care and labor bestowed upon it. It is hardy and not difficult to grow. Strong roots each 65c.

## AQUATIC PLANTS FOR INDOOR USES



**FAIRY WATER LILY.**—(Lymanthemum Trachyspermum.)—A fine little plant for the aquarium, resembling a miniature water lily. Its leaves are about three inches in diameter and the flowers are borne on the same stem and close up to the leaves. Color of flowers is pure white and they are produced continuously. Price, each 15c, 6 for 80c.

**WATER HYACINTH.**—This is one of the most remarkable, curious and beautiful of plants. It floats in the water, forming a lovely rosette of its curious shining green leaves, and throws up spikes of most exquisite flowers. Color is a beautiful, soft, lilac rose, sparkling as if covered with diamond dust. The upper petal has large metallic blue blotches and in the center of that a small golden yellow spot. Each 15c.

**PARROT'S FEATHER.**—A dainty little jewel; its trailing stems are covered with whorls of most exquisite foliage, as finely cut as the leaves of the cypress vine, but still more delicate. Each 15c.

### AQUARIUM COLLECTION

FOR THE FANCY FISHER  
Ten Stems Cabomba

1 Ludwigia      1 Water Hyacinth  
1 Bunch Lemna      1 Parrot's Feather  
Postpaid for only 65 cents



**UMBRELLA PALM.**—(Cyperus.)—A very ornamental plant which throws up slender, round stems about two feet high, surmounted at the top by a whorl of flat, ribbon-like leaves, diverging horizontally, thus giving plant a very curious and fantastic appearance. It is a splendid decorative plant, being as ornamental as a palm or fern, and above all it is as easily grown as the commonest weed, and will thrive in the shade as well as in the sun. It is an excellent plant for the dining-room table or as a water plant in the very moist spots, or for aquariums or fountains. It should have an abundance of water, although it will do fairly well in dry soil. We sell thousands of these plants and they are always satisfactory to our customers.



CYPERUS OR UMBRELLA PALM  
Each 10c, larger 25c and 50c each.

## PLANTS FOR AQUARIUMS

**CABOMBA, or Aquaria Moss.**—Is the prettiest plant in existence for growing in aquariums, and also the most valuable. The foliage is of a beautiful light green, and the leaves spread out like a fan, which gives it the name of Fanwort. Leaves beautifully and regularly cut and resemble a delicate lace fern. It grows all the year round, but it looks a great deal better during the fall and winter months than during the spring. May be broken any length and roots readily. Should be weighted down in the water so the base of stems are in the sand. Bunch of ten stems 25c, postpaid.

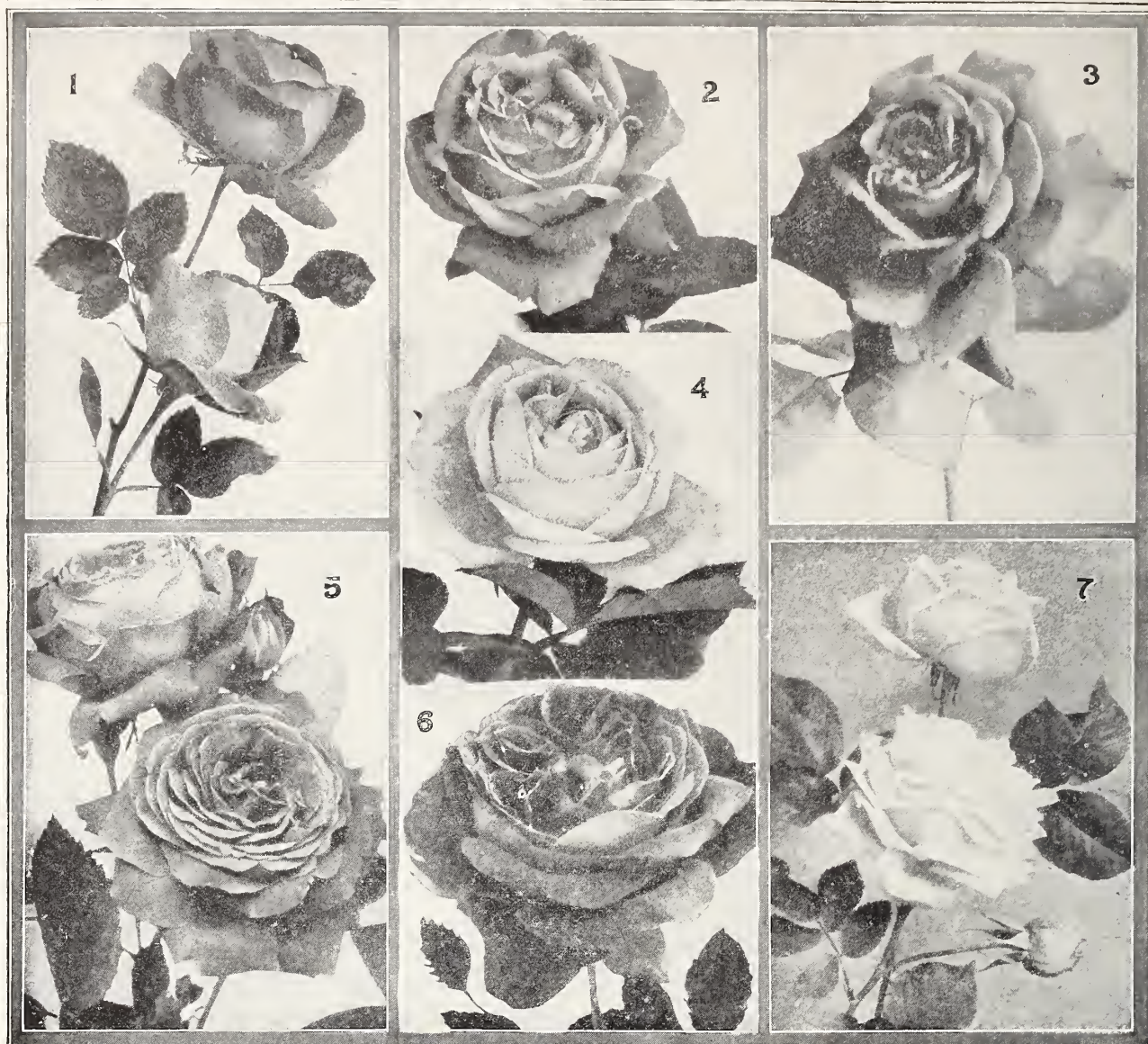
**LEMNA.**—This is sometimes called Duckweed. Small oval leaves, with rootlets hanging down in the water, and plants are produced very rapidly by the off-shoots. Bunch 15c.

**LUDWIGIA.**—A pretty plant with smooth green leaves, variegated at certain seasons with yellow and red. It grows nicely in pots, vases and hanging baskets. Ea. 10c, 6 for 50c.

**SAGITARIA.**—A grass-like plant quite desirable for aquariums. Grows rapidly. Leaves are long and ribbon-like and present a pleasing appearance and add much to the beauty of aquarium when submerged in the water. Each 15c.







## THE FAVORITE HARDY ROSE COLLECTION

SEVEN CHOICE VARIETIES, SEVEN DIFFERENT COLORS

Described among our list of hardy roses on page 105. They are truly magnificent and will be satisfactory for permanent planting. Includes the following sorts: **CLIO** (No. 1), flesh pink, shaded rose; **GEN. JACQUEMINOT** (No. 2), deep scarlet; **BARON DE BONSTETTIN** (No. 3), rich, velvety maroon red; **VICK'S CAPRICE** (No. 4), soft, satiny pink, dashed white and carmine; **CAPTAIN CHRISTY** (No. 5), bright pink; **MAGNA CHARTA**, large, rosy red; **MADAM PLANTIER** (No. 7), profuse blooming white.

ONE STRONG PLANT OF EACH, POSTPAID, ONLY 70c. LARGE TWO-YEAR-OLD PLANTS \$1.00

## MARVEL GERANIUM COLLECTION

FIVE BEAUTIFUL SORTS POSTPAID FOR 50c.

**MARVEL**.—A double geranium of splendid habit, and one of the most brilliant. Color is bright, deep scarlet; large truss and fine as a specimen plant. It is larger, brighter, and finer for pot plant than *S. A. Nutt.*

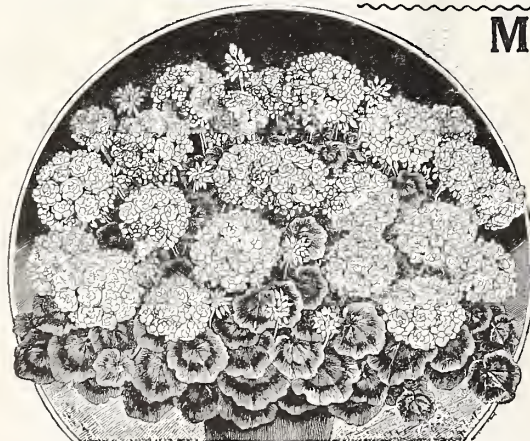
**DAYBREAK**.—The best double pink geranium. Robust growth, large bloom, fine shape, and first class in every respect. Will be a prized sort in the window garden. Is also listed in the quantity offer on page 94, as it is suitable for bedding.

**ALPINE BEAUTY**.—Semi-double bloom of splendid form and size. Clear, pure white. Our choice of the white geraniums for specimen plants because of strong growth and purity of the flower. Every household collection of living plants should contain a specimen of this variety.

**GLORY DE FRANCE**.—A composite flower of great beauty. Petals are white, veined carmine rose, a contrast of most pleasing effect. The truss is large, rather round in shape, fully double, and specially offered here to furnish the bi-colored variety in this choice collection.

**MRS. PARKER**.—The choicest of the fancy leaved sorts. Foliage is a combination of green and bronze, edged white. Blooms are double, of bright pink color, and are freely produced. Will be prized for its individual beauty.

MARVEL GERANIUM COLLECTION, POSTPAID, 50c.



SEE PAGES 93, 94 AND 95 FOR FULL LIST OF GERANIUMS, INCLUDING A LARGE NUMBER OF DIFFERENT SORTS AND TYPES.



## EVERBLOOMING ROSES

We consider these not only the most popular, but also the most satisfactory of all flowers, and therefore we make roses a leading specialty and are now devoting to them more space in our greenhouses and more land in our fields than ever before. Our plants of the several varieties are mostly grown on their own roots and are strong healthy and vigorous.

We have taken great pains in preparing this list, which represents the choicest selections from nearly a thousand varieties, and we are sure every one will prove satisfactory. The two-year-old plants offered in this class of roses are mostly pot growing plants. Roses sent by mail or express prepaid in perfect condition, to the most distant parts of the United States, and we guarantee safe arrival. Directions for culture sent with every package.

**One dozen of any variety at price of ten.**

**ANTON ROVOIRE.**—A hybrid tea of beautiful light pink color, delicate and lovely. A fine ever-blooming variety of robust, vigorous habit. One of the best of late introductions. Each 15c; two-year-old plants 30c.

**FRIEHEER VON MARSHALL.**—Dark carmine, buds long and pointed, flowers large, full and of perfect imbricated form. Each 15c; two-year-old plants 30c.

**BON SILENE.**—One of the oldest varieties in the entire list and has been grown for seventy years. It still retains its place as one of the best. Color deep rose though varying at times to a lighter shade. Each 10c; two-year-old plants 25c.

**BRIDE.**—A fine pure white cut flower rose. Very double. Buds are of very large size, carried high and erect; unsurpassed for purity and whiteness. Each 15c; two-year-old plants 25c.

**BEAUTY INCONSTANT.**—A wonderful variety, producing flowers of many shades of pink, red, crimson and yellow, all on the same bush at once, making a plant of indescribable beauty. Each 15c; two-year-old plants 30c.

**BESSIE BROWN.**—Blossoms are very large in size, full double and of perfect shape; color creamy white flushed and tinged with pink. Blossoms freely. Illustration on page 105. Each 15c; two-year-old plants 35c.

**BRIDESMAID.**—Like the Bride but of a lovely shade of clear pink. Thousands of this sort are grown every year for cut flowers, and it is also very desirable for summer bedding out of doors. Each 10c; two-year-old plants 25c.

**COQUETTE DE LYON.**—A most desirable bedding variety of light canary yellow in color. Flowers extra large, finely formed, deep and double. Ea. 15c; two-year-old 35c.

**CHATENAY.**—A most wonderfully beautiful rose. Flowers are of elegant shape with slightly recurved petals. Color creamy rose shaded with rose carmine. An extra choice garden variety. Each 15c; two-year-old 35c.

**CHAMPION OF THE WORLD.**—The champion bloomer. It is claimed that one plant will produce more flowers during the year than ten plants of any tea rose. A color which few roses can equal; rich, deep, rosy pink. Each 15c; two-year-old plants each 30c.

**FRANCISKA KRUGER.**—A strikingly beautiful rose of deep coppery yellow; quite unique and distinct from all others. Of large size and very symmetrical. Each 15c; two-year-old plants 35c.

**GEN. McARTHUR.**—An everblooming rose of exceptional hardiness, needing only slight protection over winter. Color vivid crimson scarlet. Branches freely and grows strong and vigorous. Each 15c; two-year-old plants 35c.

**GOLDEN GATE.**—A beautiful free blooming and healthy flower, long stems and continuous bloom. Flowers creamy white, delicately tinged with golden yellow and bright rose color. Each 10c; two-year-old plants 25c.

**GOLDEN BEDDER.**—The finest golden yellow tea rose. A strong, healthy, vigorous plant and a profuse bloomer. By some it is called Star of Lyons. Each 15c; two-year-old plants 30c.

**GRUS AN TEPLITZ.**—One of the brightest colored roses known. When first opened it is a dark, rich crimson, quickly changing to a bright scarlet. Blossoms continually. Each 15c; two-year-old plants 30c.

**HERMOSA.**—An old favorite variety. Prized for its beauty and abundant blossoms. Never out of bloom during the summer. In color it is a beautiful shade of bright pink. Each 10c; two-year-old 25c.

**IVORY.**—As indicated by its name the flower is pure ivory white, while the plant is all that could be desired. Strong grower, vigorous and healthy. Each 10c; two-year-old plants 25c.

**KING OSCAR.**—Hardy, strong growing variety and flowers as freely as any dark colored rose, though it will not produce as many flowers during the season as the Kaiserin or Killarney. It is such a rich, dark color that in comparison with other varieties it appears almost a maroon black. Each 20; doz. \$1.75. Large two-year-old plants each 40c; doz. \$3.50.

**LA DETROIT.**—The La Detroit rose is a most magnificent new hybrid tea rose, of largest size and splendid form; color clear flesh pink, shading to deep rose; fine broad shell-shaped petals, very full and deliciously tea scented; a vigorous grower. Each 10c; two-year-old plants 35c.

**KAISERIN.**—Decidedly the finest white ever-blooming hardy garden rose. Soft pearly white, lightly tinted with lemon at center. Free, continuous bloomer. Buds of faultless shape, developing into large, very double flowers of exquisite fragrance. A general favorite with rose growers everywhere. Each 15c; dozen \$1.50. Two-year-old plants each 30c.

**KILLARNEY.**—Killarney is fast pushing out the other sorts with the city florists and the cut flowers sell at about fifty per cent higher prices, owing to the fact that the buds are especially long and the color of the rose is a peculiarly bright, living pink, more beautiful than any other pink rose that has ever been on the market. A free bloomer, easily grown, and of strong, healthy constitution. Each 15c; doz. \$1.50. Large two-year-old plants each 30c; doz. \$3.00.

**MAD. DE WATTEVILLE.**—The tulip rose. A beautiful variety, color cream yellow, tinted pink. Petals are bordered with crimson, making it a striking and attractive flower. Each 15c; two-year-old plants 30c.



CHATENAY



GOLDEN  
BEDDER



KAISERIN





DUCHESS DE BRABANT

beautiful than in daylight. Growth splendid, sturdy and healthy; foliage large and abundant; strongly and delightfully perfumed. Each 20c; large two-year-old plants 35c.

**PRINCESS BONNIE.**—An ever blooming crimson, deep, solid and vivid. Very fragrant; one of the most prolific roses. Each 15c; two-year-old plants each 35c.

**QUEEN BEATRICE.**—A hybrid tea rose with flowers very large and double. Color deep pink, changing to lighter shade as it opens. Offered as the queen of pink roses, and it is stated to have brought the originator \$30,000. Each 20c; two-year-old plants each 35c.

**RADIANCE.**—A brilliant rosy carmine flower which is fine in form, large and full, with cupped petals. Free in growth and a profuse bloomer. Each 15c; two-year-old plants each 35c.

**RICHMOND.**—A strong rival of the American Beauty. It is a beautiful scarlet crimson, as free blooming as any tea rose, and flowers are extraordinarily fragrant. A standard variety because of its merit. Each 15c; two-year-old plants each 30c.

**RHEA REID.**—A magnificent rose described by an enthusiastic rose lover as being "as large as American Beauty, as double as La France and as red as Richmond." Color is vivid scarlet-crimson, and the flowers are marvels of beauty, large, bold and of splendid substance. Very hardy and of thrifty growth. See front cover. Each 20c; two-year-old plants 40c.

**SOUVENIR DE WOOLTON.**—We consider this one of the most beautiful and satisfactory roses grown. A rich shade of velvety crimson; deliciously fragrant; a constant and prolific bloomer; flowers frequently six inches across. Each 15c; two-year-old plants each 25c.

**SUNRISE.**—The color of this beautiful rose is so varied it is difficult to describe.

Buds yellow and scarlet and as they open the colors deepen, the yellow changing to rich orange, while the scarlet grows darker. Inside of petals of golden yellow and the contrasts of the flowers are so striking that it will attract attention anywhere. Each 15c; two-year-old plants each 30c.

**SUNBURST.**—A splendid large rose, ranking with American Beauty and Killarney in size and form. Color a beautiful coppery yellow, shaded lighter; a brilliant flower. Each 15c; two-year-old plants each 35c.

**SUNSET.**—Beautiful old gold, shaded coppery crimson, with sunset tints. Each 15c; two-year-old plants 30c.

**UNCLE JOHN.**—Always in bloom. Strong bush form, not troubled with disease. The flowers are rose color, shading to pink and white; fragrant; large, double. Each 15c; two-year-old plants each 30c.

**WHITE KILLARNEY.**—Exactly like Killarney, except in color. It is one of the best garden roses, hardy in this climate with slight protection. The color is pure, snowy white; blooms are large and buds long and pointed. Each 15c; two-year-old plants each 35c.

**DUCHESS DE BRABANT.**—This unites the highest attributes of a garden rose; very vigorous; never fails to produce flowers; healthy, rarely diseased in any way; beautiful in bud or open flower and delightfully fragrant. In color an attractive shade of soft, rosy pink, deepening to bright rose. Each 15c; two-year-old plants each 35c.

**ETOILE DE FRANCE.**—Clear red or crimson velvet shade. It is without doubt the finest red hybrid tea rose in our long list of varieties. Is included in our special offer on front cover. Each 20c; two-year old 40c.

**FRANCES E. WILLARD.**—This extremely beautiful new pure white ever-blooming rose has proved a most valuable variety for garden bedding. It is a strong, vigorous grower and makes healthy, handsome bushes. The buds and flowers are of large size and perfect form, pure snow white, delightfully fragrant, very full and perfect. Blossoms much more second season than first. Each 15c; two-year-old plants each 35c.

**JONKHEER J. L. MOCK.**—A novelty rose of great merit. Large carmine flowers on strong, stiff stems, growing upright and vigorous. Each 15c; two-year-old plants each 35c.

**MARIE VAN HOUTTE.**—An old sort which has not been superseded. Flowers deep, double and canary yellow in color. As the flowers mature color changes to cream with tints of rose. Each 15c; two-year-old plants each 30c.

**METEOR.**—One of the standard varieties of hybrid tea or ever blooming roses. It is remarkable for the strong growth, constant and abundant blooming. The color is bright, rich, velvety crimson, a delightful shade and the most popular of colors. The flowers are large, double, and it is popular because it combines all desirable qualities of a choice rose. Each 15c; two-year-old plants each 30c.

**MILADY.**—A rich crimson rose, by florists now given preference to Richmond, which has long held first place as a popular cut rose. A most lovely flower. Each 15c; two-year-old plants each 35c.

**MY MARYLAND.**—The color is a soft salmon-pink which lights up beautifully as the flowers expand. The shade is most pleasing. Under artificial light it is even more



RICHMOND.

with tints of rose.



FRANCES E. WILLARD



METEOR

## THREE-IN-ONE ROSE OFFER

No. 1.—BRIGHT RED No. 2 — SOFT PINK No. 3—PURE WHITE

Six of the best of the bright red everblooming roses, our selection of varieties, all list. We choose kinds and choice sorts, postpaid for 40c

Six of the choicest pink varieties in the everblooming type. We select them; give a bargain. Postpaid 40c

A half dozen of the finest pure white roses, everblooming type. We select them; they will please. Postpaid 40c

All Three Offers, (Eighteen Choice Plants) Postpaid, \$1.00





MRS. ROBERT PEARY

## Full Value Rose Collection

Ten Choice Roses at a Remarkably Low Price

We grow hundreds of varieties of roses, but not a poor one. The demand for the different varieties fluctuates considerably and because we cannot gauge exactly the number of each kind that will be ordered we always have a surplus of some sorts, and if you will permit us to select the varieties we will send you

**TEN CHOICE ROSE PLANTS**

**POSTPAID FOR 50 CENTS**



BESSIE BROWN

## SUMMER CLIMBING ROSES

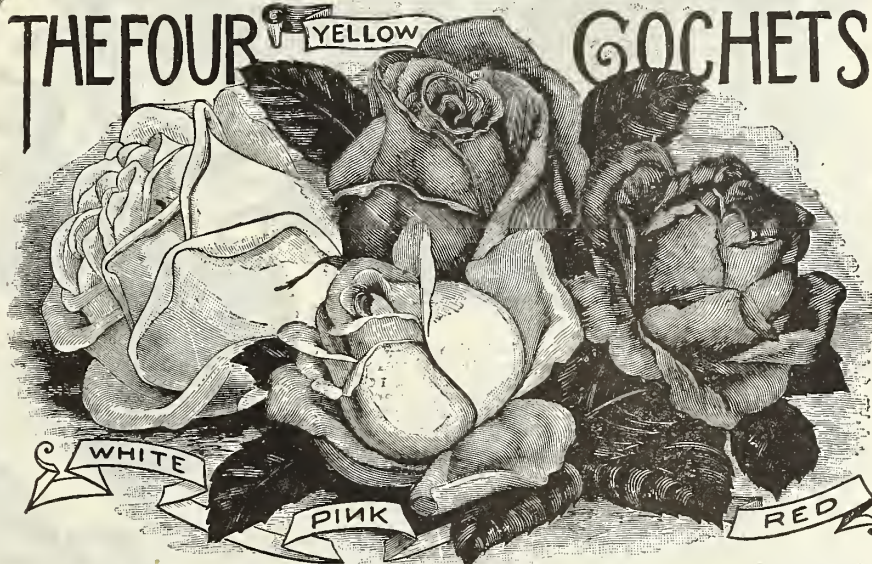
**CLIMBING MALMAISON.**—There is no finer pink than the old, well-known Malmaison, or "Souvenir" of the South, and we are sure that our patrons, one and all, will be glad to hear that we have a climbing variety that is identical with the parent. This variety will prove of inestimable value to all lovers of fine climbing roses. Each 15c; two-year-old plants 30c.

**MRS. ROBERT PEARY.**—(Climbing Kaiserin Augusta Victoria.)—Praised not only by professional but also by amateur growers. It is ever-blooming and while not classed as a hardy variety will live over winter with slight protection. The flowers are extra large, full, deep and double. The buds are long and pointed. Color pure ivory white, of delicious fragrance. Grows 10 to 15 feet in a single season. Each 20c. Two-year-old plants each 35c.

**MARECHAL NEIL.**—Grand old French variety, ever beautiful and of surpassing fragrance. It is a climbing rose which, when well cultivated, will produce an immense number of flowers. Hardy in the south but will not stand severe winters, and must be taken in and kept dormant during the winter, or may be kept in the house or conservatory. Excellent winter bloomer. Each 15c, doz. \$1.50. Large two-year-old plants each 35c, doz. \$3.25.

**CLIMBING WOOTEN.**—Deep velvety crimson flowers. Strong grower and will winter in the north if well protected. Each 15c, dozen \$1.50. Two-year-old plants each 35c, doz. \$3.25.

**ONE EACH OF THE FOUR BEAUTIFUL SUMMER CLIMBERS FOR 50c. LARGE TWO-YEAR-OLD-PLANTS \$1.00.**



The Cochet roses are exploited by many specialists as the best roses for outdoor planting. They are everblooming and distinctly beautiful, and we offer you in our collection the choicest varieties of this popular type.

**MAMAN COCHET.**—Buds large and pointed, while the open flowers are extra large, double and bloom all the time. Color is a rich, clear pink, changing to silvery rose. Each 15c. Two-year-old plants 30c.

**RED COCHET.**—Helen Gould.—Buds are long and pointed; flowers are full and perfectly double; color rich, rosy crimson, bright and glowing; a good winter bloomer. Each 15c. Two-year-old plants 30c.

**WHITE COCHET.**—An exact counterpart of the beautiful Maman Cochet except that it is of purest white. Very desirable. Each 15c. Two-year-old plants 35c.

**YELLOW COCHET.**—Deep sulphur yellow. True Cochet type; most desirable of yellow roses for outdoor planting. Each 20c. Two-year-old 35c.

**ONE PLANT EACH OF THE FOUR COCHET ROSES FOR 50c. TWO-YEAR-OLD PLANTS, ONE OF EACH FOR \$1.00.**

## FOUR LA FRANCE ROSES

La France roses are certainly the nearest perfection of flowers. Distinctive characteristics of the set are the true La France fragrance and beautiful form. Prized for their profusion of bloom.

**RED LA FRANCE.**—(Duchess of Albany.)—Deep rose pink hue. Very large, double and of superb form. Each 10c; two-year-old 35c.

**LA FRANCE.**—Beautiful form in bud and full bloom; very large, full and globular; a constant bloomer; in color pink or silvery rose—a satiny sheen, as it has been termed. Each 10c; two-year-old plants 30c.

**WHITE LA FRANCE.**—Identical with La France, except color. It is pearly white, sometimes tinted fawn. Each 10c; two-year-old plants 30c.

**STRIPED LA FRANCE.**—Is a rich creamy pink with silvery gloss, beautifully streaked and etched with carmine. Each 15c; two-year-old plants 30c.

**SET OF FOUR LA FRANCE ROSES ONLY 40c. TWO-YEAR-OLD PLANTS \$1.00.**



LA FRANCE

NOTE CAREFULLY OUR FULL VALUE ROSE COLLECTION OFFER OF TEN CHOICE ROSES FOR FIFTY CENTS ON THIS PAGE.



## BEAUTIFUL HARDY ROSES

The most satisfactory of all flowering plants, making a permanent improvement which is constantly growing in value. The lower priced roses below named are growing plants in from 2 to 2½-inch pots, while the larger sizes are strong hardy, mostly outdoor grown, two-year-old plants which have been kept dormant. These can be planted outside early in the spring before it is safe to set out plants that are growing in pots, and are ready to begin blooming almost as soon as set out. Should our stock of dormants be exhausted we will send strong two-year-old plants which have been kept growing in pots. Our experiments prove that the following are the most satisfactory varieties for general use and we have discarded all others. Remember, we prepay postage or express charges on plants at prices named.

**AMERICAN BEAUTY.**—One of the best and most valuable roses, both for garden and house culture. Color rosy crimson, exquisitely shaded and very handsome. Extra large, full flowers, fine buds. A good bloomer. See our American Beauty Collection, inside front cover page. Ea. 15c, two-year 40c.

**ANNA DE DIESBACH.**—(Glory of Paris.)—Most lovely brilliant carmine, long pointed buds; large, finely formed, compact flowers; very full and double; delightfully sweet. Vigorous grower; fine bloomer. Each 20c; two-year 35c.

**BARON DE BONSTETTEN.**—Rich, dark red, passing to a deep, velvety maroon, nearly black. A large flower, very highly scented. Included in our Favorite Collection on page 102. Each 15c, two-year-old 35c.

**CAPTAIN CHRISTY.**—Is very double; fresh, delicate pink. A splendid sort offered as a part of our Favorite Collection. Each 15c, two-year-old 30c.

**CLIO.**—Color flesh pink, shaded rose in center. Large flower of fine form. We think so highly of it we include it in the Favorite Collection. Each 15c, two-year-old plants 30c.

**COQUETTE DES ALPS.**—Flowers are large and full, finely formed and pure white. Profuse bloomer. Each 15c, two-year-old plants 30c.

**DINSMORE.**—We cannot praise this enough. Always in bloom, with large, imbricated, and very double flowers of dazzling crimson scarlet color; rich, spicy fragrance. Of compact, bushy growth. Fine for beds and very hardy. Each 15c, two-year-old plants each 30c.

**FRAU KARL DRUSCHKE.**—Beautiful white variety often called White American Beauty, because its habit and growth resemble that popular sort. Illustrated on front cover page and offered in our Iron Clad Collection. Each 20c, two-year-old plants each 35c.

**FRANÇOIS LEVET.**—An exquisite cherry pink, delicately shaded with carmine and blush. Free bloomer and perfectly hardy. Each 20c, two-year-old 40c.

**GENERAL WASHINGTON.**—A brilliant crimson, very rich and beautiful; flowers are large and perfectly double; is a free bloomer. Each 15c, two-year-old 30c.



### AMERICAN BEAUTY ROSES

**GLORIE DE MARGOTTIN.**—One of the very finest varieties. Flowers very large, symmetrical, very full and deliciously scented. Color is clear, dazzling red. It is certainly one of the most brilliant roses ever seen. Free bloomer; vigorous grower. Ea. 15c, two-year 40c.

**GENERAL JACQUEMINOT.**—One of the grandest of roses; nothing can surpass them in beauty. Color a rich, dazzling scarlet, shaded with deep, velvety crimson; a superb, glowing color. See Favorite Collection on page 102. Each 15c, two-year old plants each 30c.

**J. B. CLARKE.**—Awarded gold medal of National Rose Society. A hybrid perpetual of unique color, being an intense scarlet shaded dark, rich, crimson-maroon. Flowers very large and fine. See front cover page for illustration. One of our Iron Clad Collection. Each 20c, large two-year-old plants each 40c.

**JOHN HOPPER.**—Flowers are large, regular and full; color brilliant rose, shaded a rich crimson. Very sweet. Each 15c, two-year-old plants each 35c.

**JUBILEE.**—A grand, hardy, perpetual blooming variety. In color dark crimson, shaded velvety maroon; flowers sometimes 6 inches in diameter. Each 15c, two-year-old plants each 30c.

**LA REINE.**—A beautiful rose often listed as The Queen. Color is clear, bright rose; plant strong and vigorous. Blooms large, full, fragrant. A fine variety. Each 15c, two-year-old each 30c.

**MRS. JOHN LAING.**—For outdoor planting undoubtedly is the finest. A beautiful soft pink; delicious fragrance; very double and of large size. A constant bloomer. See Iron Clad Collection on front cover page. Each 15c, dormant plants each 30c.

**MRS. R. G. SHARMAN-CRAWFORD.**—Very full and double flowers of deep, rosy pink. Beautiful. Ea. 15c, two-year-old 30c.

**MAGNA CHARTA.**—A splendid rose with extra large, rosy red flowers, beautifully flushed violet crimson. See Favorite Collection. Each 15c, two-year-old plants each 30c.

**MADAME PLANTIER.**—Flowers borne in great profusion; are pure white; hardy as an oak, and certain to grow. Blooms in June. See Favorite Collection, page 102. Each 15c, two-year-old plants each 25c.

**MAD. MASSON.**—It is entirely hardy, blooms nearly all the time, bearing numbers of large, full, double flowers of unusual beauty and wonderful fragrance; clear, bright rose, distinct and charming. Each 15c, two-year-old plants each 35c.

**PAUL NEYRON.**—Double flowers of shining carmine pink. Largest rose known, and one of the most prolific. An exceptional grower, making shoots 4 to 5 feet high in a season. Offered in our Iron Clad Collection on the front cover page. Each 15c, two-year-old plants each 30c.

**PRINCE CAMILLE DE ROHAN.**—A fine rose of rich, velvety crimson, passing to maroon, shaded black. Ea. 15c, two-year 35c.

**TRIUMPH.**—Superb new variety from England, where it is sometimes known as "Hugh Dickson." Color crimson flamed scarlet. Blossom extra large, highly perfumed. Each 20c; two-year old plants each 50c.

**ULRICH BRUNNER.**—A rich, glowing crimson scarlet; flowers of exquisite shape. The deep red in our Iron Clad Collection. Each 15c, two-year-old 30c.

**VICK'S CAPRICE.**—Perfectly hardy. Flowers large, soft, satiny pink, distinctively striped and dashed with white and carmine. See Favorite Collection, page 102. Each 15c, two-year-old plants each 30c.



MADAM  
MASSON



LA REINE



## BABY RAMBLER ROSES

This type of roses has created a furore among rose planters in America and we list below four varieties in collection that our customers may have contrast of color necessary for best effects. Hardy.

**CRIMSON BABY RAMBLER.**—The very best bedding rose in existence. It originated in Orleans, France, from a cross of the Crimson Rambler and a Polyanthus variety, and it may be called a perpetual blooming dwarf Crimson Rambler. The bush is vigorous, absolutely hardy, about 7 inches in height, and on our place every plant was in bloom every day of the summer and fall. Sometimes as high as 120 flowers have been counted on a single panicle. Nice, well-grown plants each 15c; doz. \$1.50. Large two-year-old plants each 35c.

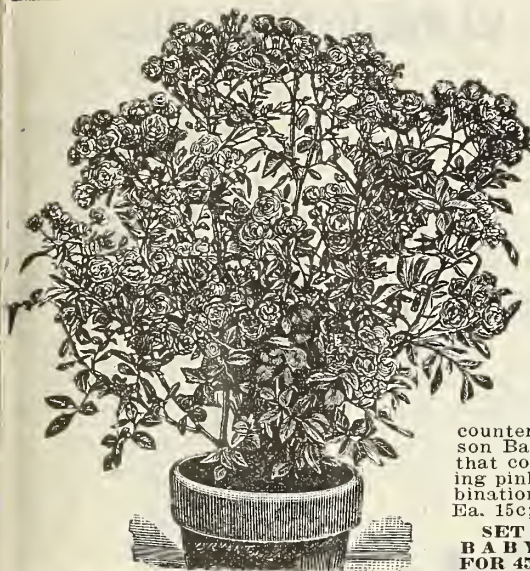
**BABY TAUSENDSCHON.**—Dwarf form of the "Thousand Beauties" rose. Like the clashing variety, it shows many shades of color, from carmine to shell pink, in the clusters at the same time. It produces blooms in wonderful profusion and a few plants will give the effect of many varieties in a single bed. Each 10c; large two-year-old 35c.

**WHITE BABY RAMBLER.**—(Catherine Zeimet.)—The true Baby Rambler type, with pure white flowers. Deliciously fragrant and perfectly hardy. Each 15c; two-year-old plants 35c.

**PINK BABY RAMBLER.**—(Phyllis.)—A

counterpart of the Crimson Baby Rambler except that color is bright, shining pink. Splendid in combination with the above. Ea. 15c; two-year-old 35c.

**SET OF FOUR BABY RAMBLERS FOR 45c, OR IN TWO-YEAR-OLD PLANTS, \$1.10.**



CRIMSON BABY RAMBLER

### LITTLE FAIRY ROSE COLLECTION

One each of Crimson Baby Rambler, Baby Tausendschon, Clothilde Souper and Cecil Brunner; the best varieties in the smaller roses, and will please with daintiness and beauty.

**FOUR LITTLE FAIRIES, POSTPAID, 45c. IN TWO-YEAR-OLD PLANTS \$1.00.**

## FAIRY ROSES

These small roses are marvels of grace and beauty; the blooms are borne in clusters.

**YELLOW SOUPERT.**—(Mosella.)—Choice novelty. Flowers are double; tinted white on beautiful light yellow ground. Each 15c; two-year-old plants each 25c.

**LITTLE WHITE PET.**—A pure white of perfect shape. Hardy. Ea. 10c; two-year-old 25c.

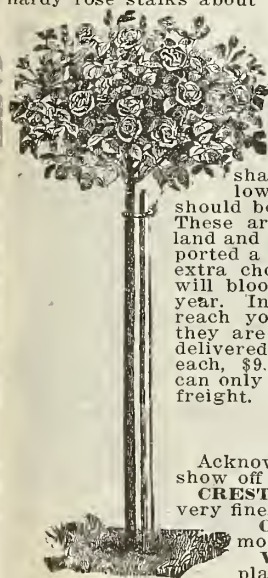
**CLOTHILDE SOUPERT.**—One of the most popular and satisfactory roses grown. Wonderfully free bloomer. White, shaded pink. Each 10c; two-year-old plants each 25c.

**CECIL BRUNNER.**—Is similar to Clothilde Souper, except it is salmon rose on yellow ground color. Like all others of this class it is extremely free flowering. Each 15c; two-year-old plants 25c.

**THE FOUR FAIRIES FOR 35c. TWO-YEAR-OLD PLANTS \$0.60.**

## ROSE TREE

These elegant Rose Trees are grafted on hardy rose stalks about 4 feet high, are tree-shaped and when in full bloom are objects of beauty, making handsome plants for the lawn or rose border. In this shape we offer only the hybrid perpetual or hardy class. We have them in white, the different shades of red, pink, yellow and crimson. They should be protected in winter. These are all grown in Holland and this year we have imported a very large number of extra choice specimens which will bloom profusely the first year. In order to have these reach you in good condition, they are carefully packed and delivered in cars here at \$1.00 each, \$9.00 per dozen. They can only be sent by express or freight.



TREE ROSE



LITTLE WHITE PET

## MEMORIAL ROSES

These hardy little roses creep over the ground like ivy. The leaves are a glossy dark green color; profuse flowering.

**WHITE MEMORIAL.**—(Wichuriana.)—Fine for cemetery planting. The flowers are single and pure white; hardy. Each 15c; two-year-old plants each 30c.

**MANDA'S TRIUMPH.**—Is a rapid, sturdy grower; bears a profusion of double, pure white, imbricated flowers; elegant for cemetery planting. Each 10c; two-year-old plants 25c.

## MOSS ROSES

Acknowledged queen of all roses; moss-covered stems and buds show off delicate loveliness of blossoms; hardy but needs protection.

**CRESTED MOSS.**—Deep pink buds surrounded by mossy fringe; very fine. Each 20c; dormant plants each 30c.

**CRIMSON GLOBE.**—Large flower; deep, rich crimson; very mossy; fragrant. One of the best. Each 15c; dormant 35c.

**WHITE MOSS.**—Everyone should have one of these lovely plants. Each 15c; dormant plants 35c.

**ONE EACH FOUR MOSS ROSES FOR 25c; DORMANT 75c.**



RUGOSA ROSES

## RUGOSA ROSES

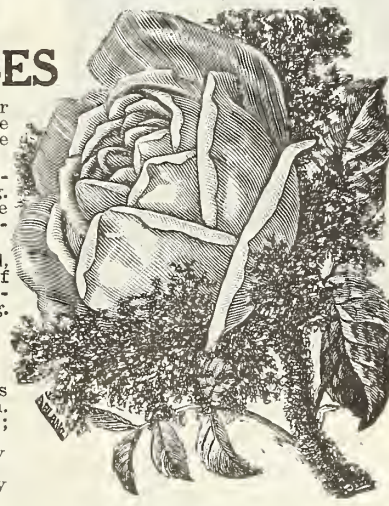
**SIR THOMAS LIPTON.**—A hardy hybrid rugosa rose. Grows 4 feet high, strong and vigorous. Flowers double, pure white. Fine for hedging, cemeteries or massing. Each 15c; two-year-old plants 35c.

**CONRAD F. MEYER.**—Elegantly formed buds and flowers  $3\frac{1}{2}$  to 4 inches across and perfectly double. Color rich, peachy yellow, tinged silver rose; very fragrant, and entirely hardy. Each 15c; two-year-old 35c.

**RED RUGOSA.**—A single-flowered rose. Makes a handsome large bush; bright green leaves; clusters of deep rose colored flowers continuously, followed by large, apple-shaped, bright red fruits. Strong plants 25c.

**WHITE RUGOSA.**—Similar to the above; white flowers. Each 30c.

**ONE EACH FOUR RUGOSA ROSES IN LARGE PLANTS, ONLY \$1.00.**



CRESTED MOSS



## HARDY CLIMBING ROSES

For porches and trellises nothing surpasses the climbing roses, especially the ever-blooming varieties. We recommend the two-year-old plant for immediate effect. Following recommended as permanent plants:

**CLIMBING AMERICAN BEAUTY.**—A real American Beauty in flower, foliage and fragrance, but grows as a climber, often making fifteen feet in a single season. Flowers are very large, from three to four inches in diameter, of fine form and are borne in great profusion. A continuous bloomer, and hardy. A new rose of exceptional merit. Each 20c; two-year-old plants, each 50c.

**BIRDIE BLYE ROSE.**—This new ever-blooming variety is one of the choicest. Hardy, living over winter with slight protection. It is a pillar rose, growing about 6 feet high, but can be trimmed to bush form; glossy foliage and blooms constantly, producing at the end of every shoot clusters of bright, satiny-rose blossoms, quite double, intensely fragrant and over three inches in diameter. The buds are long and pointed and a bright carmine color. Each 20c, two-year-old plants 50c.

**THOUSAND BEAUTIES.**—(Tausendschon.)—A hybrid from crossing Crimson Rambler with Tea and Polyantha varieties. Blooms profusely from the beginning of June until the last of July. Color a lovely shade of soft pink when first open, changing to carmine on reverse of petals. The blooms are produced in clusters and show different shades at the same time. The older blooms will be deep pink and grading to light shell pink of the newest buds. It is this feature that gave the rose its name of "Thousand Beauties." Not so thorny as most sorts and is a strong, vigorous grower. Each 20c; two-year 40c.

**RUSSELL'S COTTAGE.**—Dark crimson, very double and full; extra strong, rampant grower of iron-clad hardness. This is the most satisfactory dark red climbing variety. Ea. 15c; two-year-old 30c.

**SEVEN SISTERS.**—One of the old standard climbing roses. Crimson, changing all shades to white. Blooms in clusters. Each 15c; two-year old 25c.

**MARY WASHINGTON.**—Hardy, perpetual blooming climber, producing double snow white blossoms from June until frost. In this lovely rose our first president took special delight and named it after his mother, Mary Washington. Ea. 15c; two-year-old 30c.

**PRAIRIE QUEEN.**—An old standard always popular. Grows successfully everywhere and under any conditions. Bright pink, full and double; a large flower. Each 10c; two-year-old plants 25c.

**BALTIMORE BELLE.**—Double blush white; large clusters covering plant with bloom. An old time favorite still popular because of its hardness and general excellence. Each 10c; two-year-old plants 25c.

### BARGAIN COLLECTION OF HARDY CLIMBING ROSES

We make a special offer of one each Thousand Beauties, Birdie Blye, Russell's Cottage, Mary Washington, Climbing American Beauty, Seven Sisters, Baltimore Belle and Prairie Queen for 85c, postpaid; large two-year-old \$1.75.

### Rainbow Rambler Collection

5 1 BLUE RAMBLER 50  
1 WHITE RAMBLER  
1 CRIMSON RAMBLER  
for 1 YELLOW RAMBLER Cts.  
1 DOROTHY PERKINS

TWO-YEAR-OLD PLANTS ONLY \$1.00  
Postpaid to your address.



BIRDIE BLYE ROSE



DOROTHY PERKINS

of time without losing their brightness. Each 10c; strong two-year-old plants 25c.

**YELLOW RAMBLER.**—Grand new variety like above except that it is golden yellow. One of the most satisfactory varieties. Each 10c; dormant plants 25c.

**DOROTHY PERKINS.**—A grand new sort remarkably like Crimson Rambler, but flowers more double and beautiful shell pink color. Each 10c; dormant 30c.

**WHITE DOROTHY PERKINS.**—Like the parent variety with pure white flowers. The Dorothy Perkins type is preferred by most rose growers to the ordinary Rambler sorts. Each 25c; two-year-old plants 50c.



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CRIMSON RAMBLER

## RAMBLER ROSES

**BLUE RAMBLER.**—(Veilchenblau.)—The wonderful new rose which resembles the well-known Crimson Rambler in its climbing habit and manner of growth, having glossy green foliage and bearing large clusters of medium sized flowers. When first opened its color is an attractive shade of violet crimson, later changing to a more distinctive and the unique shade of violet-blue. Is markedly distinct in color from any other rose and is a novelty deserving attention. Strong plants each 15c; large two-year-old plants 35c.

**PHILADELPHIA RAMBLER.**—A greatly improved Crimson Rambler. Begins blooming two weeks earlier and its color is brighter, more intense crimson; almost entirely free from mildew. Each 15c; two-year-old plants 30c.

**CRIMSON RAMBLER.**—The most popular rose in existence, as it is always satisfactory. Many instances are reported of 3,000 to as high as 19,21 flowers by actual count on one bush. Exceedingly hardy. Flowers are produced in large trusses of pyramidal form and of brightest crimson color. The blooms remain on the plant for a great length



MARY WASHINGTON

NOTE PARTICULARLY THAT THERE ARE TWO BARGAIN COLLECTIONS OF OUR CHOICE ROSES OFFERED ON THIS PAGE.



# TENDER VINES AND BASKET PLANTS

Listed separately for the convenience of our patrons who desire them for special uses.

## CLERODENDRON

**BALFOURI.**—Unique and beautiful. It presents a splendid combination of colors, having bright scarlet flowers with creamy white calyx; a profuse bloomer, young plants a foot high bearing several clusters. A strong and rapid grower. Each 15c.

## GLECHOMA

(Variegated Ground Ivy.)—The foliage is a bright green, marked with pure white and has a refreshing fragrance similar to mint. Is graceful and beautiful for hanging baskets. Entirely hardy when planted out, and makes an ornamental, dense mat on the ground. Each 10c, dozen 75c.

## HOYA

**CARNOSA.**—(Wax Plant.)—A well known house climber, with thick, fleshy leaves and curious waxy flowers, bluish white in color. Quite scarce and not always obtainable, but we think we have enough to supply our friends this season. Each 25c.

## IVIES

**ENGLISH.**—Old favorite, showy the year round. Hardy in South but will not stand our Iowa winters. Each 10c; large 25c.

**VARIEGATED ENGLISH.**—Foliage prettily marked pure white on dark green ground. A handsome pot plant or for trailing from sides of boxes or baskets. Each 15c.

**KENILWORTH.**—An old familiar trailing ivy. Perhaps the best for shaded places or rooms where light is not strong. Each 10c; dozen 75c.

**GERMAN.**—Well known; popular as a plant for hanging baskets and vases. Grown with very little trouble. Each 10c; dozen 85c.

**ONE PLANT EACH OF THE FOUR IVIES ABOVE NAMED FOR ONLY 35c.**

## VINCA MAJOR

**ELEGANTISSIMA.**—The handsomest vine to grow in window boxes, hanging baskets, trailing from pots, rockeries, etc. The long, trailing stems of glossy green leaves are broadly margined and variegated with white. Of easiest culture and does well either in sun or in shade. Blue flowers. Each 10c, dozen \$1.00. Large size plants 25c.

**HARRISONI.**—Similar to above but with darker variegation. Very popular because of its strong growth. A well grown plant will completely fill a large hanging basket. Each 10c, dozen \$1.00. Large size, each 25c.

## WANDERING JEW (Tradescantia)

An old, well known trailing plant nice for growing in hanging baskets, vases, pots or window boxes. Two sorts with variegated foliage, and also the plain green leaf variety. Each 10c, 4 for 25c.

## DOUBLE NASTURTIUM

Flowers are large and fully double, different in appearance from any others. Plant of climbing habit, and fine for trellises, window boxes, vases, etc. It never produces seed. Flowers red and yellow. Each 15c; dozen \$1.25.

## PASSION FLOWER

**MAMMOTH.**—Flowers 2 to 4 inches in diameter, and the colors a remarkable combination of red, white and blue flowers. Ea. 15c.

**CONSTANCE ELLIOTT.**—A white-flowered mammoth variety. Each 15c.

## HANGING BASKET COLLECTION

This illustration of our popular collection but poorly depicts the great beauty of a hanging basket filled with appropriate plants, well grown and healthy. We have in this collection chosen a half dozen plants which will give splendid results with but little care and may be grown in any home window garden. At the price it is surely an opportunity.

**BOSTON FERN.**—The most popular decorative plant in the entire list. Each 15c.

**REX BEGONIA.**—Most beautiful foliage plant; a source of much satisfaction. Ea. 25c.

**TRAILING ABUTILON.**—Trailing variety of well known Flowering Maple. Each 15c.

**VARIEGATED VINCA.**—The most popular vining basket plant on the list. A favorite with all. Each 10c.

**TRAILING FUCHSIA.**—Adding attractiveness with its beautiful flowers and foliage. Each 15c.

**WANDERING JEW.**—The old-fashioned favorite basket plant. Each 10c.

One each of above by mail, postpaid, 60c. Or the six plants and one 8-inch wire hanging basket and moss for lining, all postpaid, for 95c.



## MANETTA

**BICOLOR.**—One of the handsomest little vines in existence. Easily and quickly grown; blooms continuously. Well adapted for hanging baskets, pot culture, vases or beds. Flower brilliant scarlet, tipped with clear golden yellow, making it most wonderfully attractive. It blooms constantly and produces in winter when taken into the house. Ea. 10c.

## MOONFLOWER

**WHITE.**—Very handsome climber and grows to a height of 25 to 40 feet; covered nightly and on dull days with its white, moon-like flowers. Each 15c, doz. \$1.25.

**BLUE.**—(Ipomea Leari.)—Flowers are a clear satiny blue, with well defined crimson bars, very distinct. Each 15c, dozen \$1.25.

## MAURANDIA

Graceful climbers for window or conservatory or open ground in the summer; fine to hang from vases, to cover stumps and low trellises; they flower freely. Each 10c.



## HANGING BASKET COLLECTION.



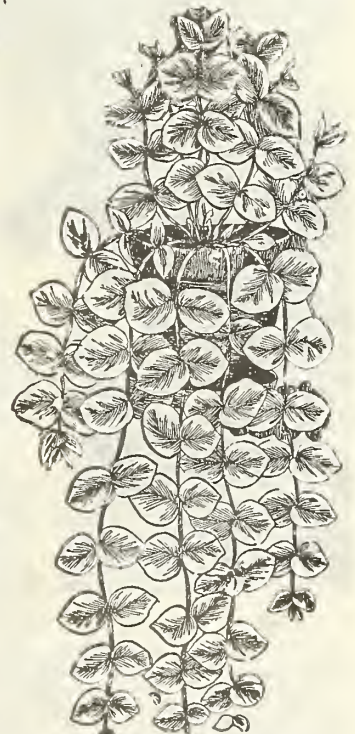
SAXAFRAGA

## SAXAFRAGA

**STRAWBERRY GERANIUM.**—The well known, much used old plant for hanging baskets or vases. Long, strawberry-like runners. This is an old-fashioned plant but still popular and will always be prized for its hardiness and thrifty habit. Will grow vigorously and give satisfaction under the hardest conditions. Plants ea. 15c; 4 for 50c.

## SMILAX

A well known and handsome climber. Most popular of all vines with florists. Grows compact and upright, and from the manner of growth does not require any great amount of space. Can be trained on string. Ea. 10c.



VINCA ELEGANTISSIMA

IF YOU WANT TO PURCHASE A HANGING BASKET FILLED WITH ANY PARTICULAR PLANTS, WRITE FOR PRICE COMPLETE.



## HARDY VINES

In making a home, plan for future beauty, comfort and happiness by planting a variety of hardy clematis, ornamental vines, shrubs and roses which will constantly grow in beauty and size. Such permanent improvements add greatly to the value of any property, and the value grows from year to year, so that instead of an expense they should be considered a paying investment. We prepay postage or express charges at these prices.

### AMPELOPSIS

**VEITCHII.**—(Boston Ivy.)—Is a very beautiful hardy climbing plant. This is one of the finest climbers we have for covering walls, as it clings firmly to the smoothest surface, covering it smoothly with overlapping foliage, giving it the appearance of being shingled with green leaves. Should be slightly protected the first winter, but after that it will be found entirely hardy in the most exposed places, attaining a height of 20 to 30 feet in two or three years, clinging to stones, brick or woodwork with the greatest tenacity. It is a great protection to houses, as the leaves, lapping over each other like shingles on a roof, effectually prevent the rain from penetrating the walls. For covering dead trees, gate posts, boundary walls, etc., it has no equal. In the summer the foliage is a rich shade of green, but in the fall it assumes the most gorgeous tints of crimson, scarlet and orange, so dazzling as to be seen at a great distance. Each 15c; doz. \$1.25. Large plants 25c; doz. \$2.50.

**ENGELMANNII.**—This is an improved Woodbine which bears very large, dense and abundant foliage. The leaves are glossy light green in summer, changing to brilliant crimson in autumn. Clings to rough stone or brick without support and has the upright manner of growth of the Veitchii and is preferred because of its much heavier growth of leaves. Each 15c; large 25c.

### ARISTOLOCHIA

**DUTCHMAN'S PIPE VINE.**—The well known, vigorous and rapid growing climber used so extensively for arch-ways or verandas. It takes its name from the singular brownish colored flowers, resembling in shape a pipe. The leaves are heart-shaped and retain their color from early spring to late fall. Each 25c; large 40c.

### AKEBIA QUINATA

A perfectly hardy, fast-growing Japan vine, producing flowers in large clusters, of chocolate purple color, possessing a most delicious perfume; unsurpassed for covering trellises and verandas; the foliage is never attacked by insects. Each 15c; large 30c.

### APIOS

**TUBEROSA.**—Valuable, hardy, tuberous-rooted climber, resembling in miniature the Wistaria vine, and having clusters of deep purple flowers which have a strong violet fragrance. They grow to a great height, and bloom profusely. Plant several bulbs close together to produce a mass of vines and flowers. Each 5c; doz. 50c.

### BITTER SWEET

A native climbing or twining plant; large leaves, yellow flowers, orange capsuled scarlet fruit. One of the most popular of native plants, as its beautiful seed pods are prized for winter decoration. Each 10c; large 25c.

### CHINESE KUDZU VINE

**JACK-AND-THE-BEANTALK VINE.**—The phenomenal growth of this new Chinese hardy vine can hardly be imagined—sometimes 12 inches a day. The large leaves of bright green afford a dense shade. In valuable for rapidly covering arbors, fences, dead or old trees, rockeries, etc. Perfectly hardy; grow 50 to 75 feet when well established. Each 15c, doz. \$1.50; medium size 25c; large size 50c.

### CINNAMON VINE

A tuberous-rooted, hardy vine which is also listed among the summer bulbs. With its beautiful heart-shaped leaves and clusters of delicate white flowers and cinnamon fragrance, it is a very desirable vine. Large tubers each 10c; 3 for 25c; doz. 75c. Bulblets from which the large tubers can be grown in one season, doz. 10c; 100 for 60c.

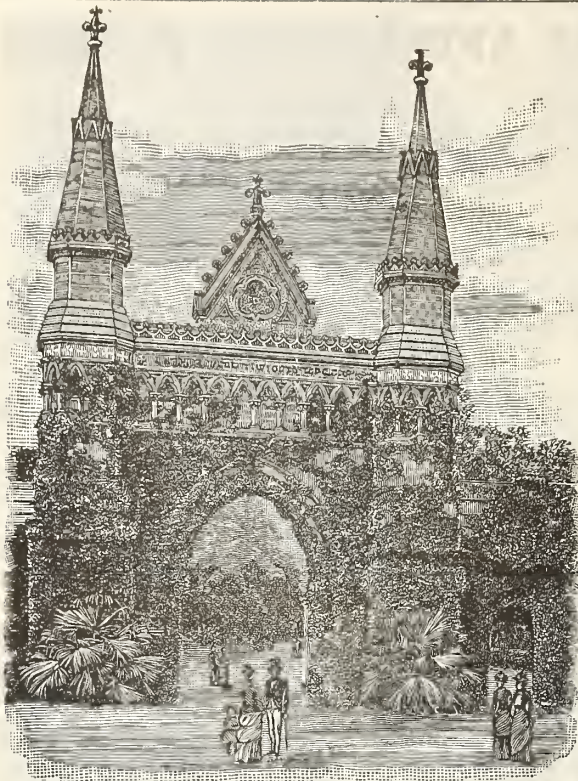
### CHINESE MATRIMONY VINE

**LYCIUM.**—This vine is a very vigorous growing, shrubby climber which is perfectly hardy and desirable for training on trellis, wall or fence. Every new shoot becomes filled with small purple flowers, which are followed by brilliant scarlet berries which remain on the vine until late in the winter. Although the flowers are not showy, the long stems droop gracefully and make an admirable covering for the porch. Each 10c; large 25c.

### CAMELIA VINE

In the Camelia Vine (*Calystegia Pubescens*) we have a flower of true Camelia shape and size, perfectly double and of most beautiful rose color. Of easiest culture, growing well in any soil or location. Vine is of rapid growth, quickly covering trellis or porch and growing to a height of three to five feet. For best results set 12 to 18 inches apart. Leaves are lance shape, dark green, and lap like shingles. Roots live in ground over winter. Blooms continuously from May to October and pleases everyone. Each 15c; doz. \$1.25.

CAMELIA VINE



AMPELOPSIS VEITCHII OR BOSTON IVY

### BIGNONIA

**RADICANS.**—(Trumpet Creeper.)—An old-fashioned hardy climber. Very desirable for covering unsightly places, stumps, old fences, and also fine for any spot when showy flowers are desired. It has clusters of large, trumpet-shaped crimson flowers with orange throat. Grows in almost any soil under trying conditions; hardy. It is one of the most popular of the hardy vines, and is useful and beautiful for any situation where a permanent vine is desired. Each 15c; large plants 25c.



BIGNONIA RADICANS



ARISTOLOCHIA

They grow to a great height, and bloom profusely. Plant several bulbs close together to produce a mass of vines and flowers.







CLEMATIS JACKMANII CLEMATIS HENRYH CLEMATIS PANICULATA

**HARDY CLEMATIS**

The most popular climbing plant of the day, and is constantly gaining in popularity—and why should it not?—as it is hardy, standing our most severe winters with but slight protection; grows rapidly and blooms freely during the entire season.

**JACKMANII.**—Most magnificent and showy vine in existence; of strong, healthy growth, perfectly hardy and sure to succeed anywhere. Flowers four to six inches in diameter, of a rich, deep velvety purple, distinctly veined. It is a prince among all hardy flowering vines. It is especially adapted to open lawns or house fronts in the city or country; blooms the entire season, from July to October, bearing beautiful and lasting flowers. Strong plants, each 50c.

**HENRYH.**—This may be briefly described as a white-flowered Jackmanii. It is the finest of all white sorts; the same size as Jackmanii. Each 50c.

**MAD. EDOUARD ANDRE.**—An entirely distinct and beautiful new variety, being the nearest approach to a bright red ever sent out. Has the same vigorous growth, hardiness and freedom of bloom as the above, while the color is a pleasing carmine red. Each 50c.

**PANICULATA.**—This small-flowered variety of Clematis is one of our most beautiful, hardy, fall-blooming vines. The flowers, which are pure snow-white, are produced in immense clusters, fairly covering the plant with a mass of fleecy-white, deliciously fragrant. Of extreme rapidity of growth. Each 15c; large, extra strong plants 35c.

**COCCINEA.**—A charming variety of Clematis. Flowers are bell-shaped, and of brilliant coral red color. A rapid grower and free bloomer, flowering from June until frost. An herbaceous perennial, about 12 ft. high. Ea. 25c.

**VIRGIN'S BOWER.**—(Clematis Flammula.)—An old-fashioned popular climber, growing to a height of 20 feet, and covered with fragrant flowers. The vine is perfectly hardy, rapid growing, graceful, and will succeed anywhere. Each 10c; large 25c.

**COLLECTION.**—A large plant of each of above kinds of Clematis for only \$1.60, postpaid. A great bargain.

**HONEYSUCKLE**

**RED CORAL.**—A shrubby climber and one of the most satisfactory of all plants. Has been a favorite for many years. The odd-shaped foliage is showy and attractive and it produces its bright red, fragrant, trumpet-shaped flowers almost continuously. Nice for a hedge or for training over a residence. Each 15c; doz. \$1.50. Large plants 25c.

**HALLIANA.**—(Hall's Japan.)—For real home vines to climb over your windows and doorways there is nothing prettier than the Honeysuckles, and the Halliana is considered by many the sweetest and most beautiful of all. It is now planted in many places on terraces and allowed to run naturally, and it makes a lovely show treated in this way. It is a strong, rapid grower, perfectly hardy and almost an evergreen even in this severe climate. Blooms constantly and profusely from June to November. Flowers pure white changing to yellow, and of peculiarly delicious fragrance. Fine for trellises or pillars. Foliage bright, glossy green; makes dense shade. Each 10c; doz. \$1.00. Large, two-year-old plants 25c; doz. \$2.50.

**GOLDEN LEAVED.**—Slender, moderate grower; leaves are beautifully veined and netted with bright yellow; flowers yellow and sweet-scented; fine for pillars and trellises. Each 15c; large 25c.

I am sending you another order for plants. The plants you sent me last year came all right, and are growing fine.—Mrs. R. F. Welch, Fruitvale, California.



RED CORAL HONEYSUCKLE

Plants were received here in fine condition and took well. With care and good soil I hope to give you a splendid report in the fall.—Charles O. Prince, Canton, Ohio.

**HOP VINE**

A vigorous, hardy, ornamental vine, for covering old trees, outbuildings, fences, etc. Produces the hops of commerce. Grows 50 feet high in a single season. Is both ornamental and useful. Each 10c; dozen 75c.

**SILK VINE**

**PERIPLOCA GRECA.**—Beautiful rapid-growing climber, 30 to 40 feet high; hardy. Leaves glitter like silk, hence name. Flowers purplish brown and borne in clusters. Each 15c; large 40c.

**WOODBINE**

**VIRGINIA CREEPER.**—A strong, rapid grower; foliage large, dark green; in autumn bronze and crimson. This is an old favorite and quite common in most localities. Valuable for covering back porches, out-buildings, arbors, etc. Each 10c; doz. \$1.00. Large size 20c; doz. \$2.00.

**WISTARIA**

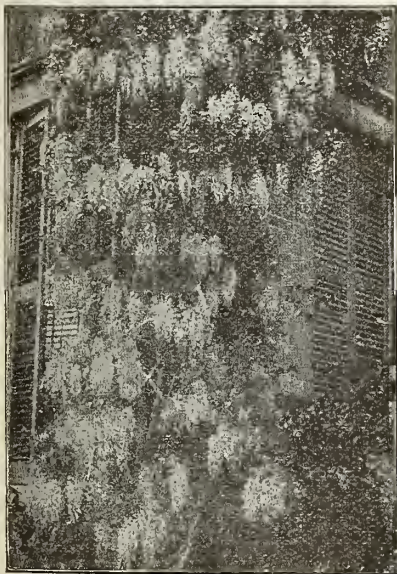
**BLUE CHINESE.**—A very rapid grower, and one of the most beautiful of all climbers. It is perfectly hardy, climbing to a height of fifty feet; when covered with bloom it is magnificent. Each 15c; large 35c.

**WHITE.**—Similar to above; flowers white. Can furnish large plants only. Each 40c.

**HARDY VINE COLLECTION**

One *Ampelopsis*, for the buildings; one *Clematis Paniculata*, for the front porch; one *Honeysuckle*, for the trellis in the front yard or on the lawn; one *Bignonia* (Trumpet Creeper), for the fence or screen. These are specially selected for the purposes mentioned but can be used to advantage in many different ways. We send one each of the beautiful vines postpaid for 40c, or will send extra large, strong plants suitable for immediate effects, by express, not prepaid, for 75c.

WISTARIA





# HARDY SHRUBS

There is nothing which so quickly, and for so little cost, adds so much to the beauty, cheerfulness and homelike appearance of a place as an assortment of hardy shrubs. They are permanent improvements which increase in size, value and beauty year after year. Our price is for strong, healthy plants sent by mail postpaid, except if they are quoted "by express" it means that customers are to pay cost of transportation. Those marked large or dormant are strong two-year-old plants. We will help you beautify your home. We can give you helpful advice about planting hardy shrubs and your inquiries will be answered without charge.

## ALTHEA

**DOUBLE WHITE.**—(Rose of Sharon.)—This is generally popular as one of the most beautiful shrubs. The bushes are of neat shape, have nice foliage and would be valuable as ornamental hedge plants even if they produced no flowers. The plants, however, are loaded with large, beautiful flowers during August, September and October. Double white flowers produced in great profusion. Each 15c; large size 25c.

**DOUBLE RED.**—Similar to above but flowers are bright red color. Each 15c; large size 25c.

**DOUBLE PURPLE.**—Like above, except flowers are beautiful purple. Ea. 15c; large 25c.

**DOUBLE BICOLOR.**—White, blotched pink. Very beautiful. Each 15c; large 25c.

**VARIEGATED LEAVED.**—The beautiful foliage of this variety attracts attention everywhere. Deep green, bordered with band of creamy white. Flowers red. Each 35c.



ALTHEA  
BICOLOR

## BARBERRY

A well-formed, spiny shrub, growing 2 to 3 ft. high; useful as specimen plants or for hedges. Illustrated in hedge form and offered in quantity for hedge planting on next page. Each 15c; doz. \$1.50, postpaid. Extra large, strong plants, each 35c; per doz. \$3.00. Plants of either variety for hedges by express, per 100 \$12.00.

## CALYCANTHUS

A beautiful sweet scented shrub; grown as an ornamental plant and is generally known as "Sweet Shrub." Flowers purplish brown, quite double, exquisitely fragrant. Each 15c; large size 25c.

## CYDONIA

**JAPONICA.**—(Japan Quince.)—A bright scarlet crimson flower. Blooms early in the spring and are fine for specimen plants on lawn or for hedge. Each 15c; doz. \$1.25; 100 \$8.00. Large, ea. 35c; doz. \$3.00; 100 \$18.

## DWARF HONEYSUCKLE

**RED TARTARIAN.**—The best variety of Lonicera for general planting. Bloom in June with beautiful pink and white flowers, followed by red berries. Is ornamental throughout the season. Ea. 15c; large 30c.

## ELEAGNUS

**LONGIPES.**—(Japan Oleaster.)—A very desirable shrub with silvered foliage and bright orange berries of large size and agreeable flavor. Each 15c; large plants 35c.

## FLOWERING ALMOND

**DOUBLE PINK.**—One of the earliest and finest of shrubs. Loaded with double pink flowers which attract attention. Mail size 40c; large size, 60c.

**DOUBLE WHITE.**—Like above, but with snowy white flowers. Our stock of both varieties is very fine; large, strong and vigorous plants. Mail size 40c; large 60c.

## FLOWERING CURRANT

The old-fashioned, large-growing Missouri Flowering Currant; grows 6 to 8 feet high, bearing yellow flowers. The foliage is finely cut and very attractive. Each 10c; large plants each 25c.

## FORSYTHIA

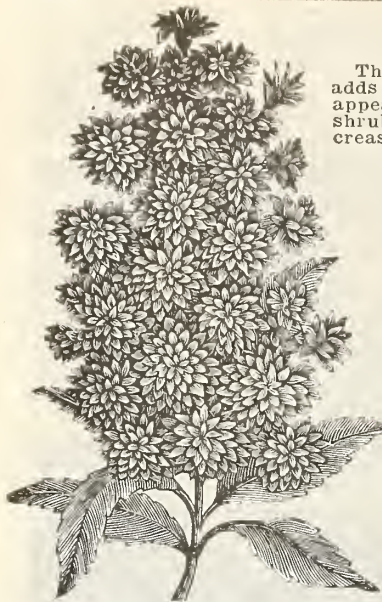
**SUSPENS.**—(Golden Bell.)—A fine, hardy shrub of weeping or pendulous habit of growth; deep green leaves and bright yellow flowers. Blooms early. Each 15c; large plants each 25c.

**FORTUNIS.**—A more upright growing variety; yellow. Each 15c; large plants 25c.

**VIRDISSIMA.**—Blooms among the first shrubs. The flowers are yellow, drooping and borne in great numbers. A variety originally from China. Each 15c; large 25c.

## EXOCHORDIA

**GRANDIFLORA.**—(Pearl Bush.)—A neat, compact bush, 10 to 12 feet; trims any shape; pure white flowers borne in slender racemes of 8 to 12 florets each. Each 15c; large 30c.



PRIDE OF ROCHESTER DEUTZIA

## DEUTZIA

**PRIDE OF ROCHESTER.**—By far the handsomest variety of Deutzias. It is a very desirable shrub of strong, hardy growth, with nice, luxuriant foliage and bearing an abundance of beautiful racemes of double pure white flowers. Must be seen to be appreciated. Every one of our customers should have at least one of these. Each 15c; large plants 30c.

**GRACILIS.**—Pretty, round, bush-shaped Deutzia, bearing pure white flowers in great numbers during May. Each 15c; large size each 25c.

**CRENATA.**—Flowers are double white, and tinged with pink. Small 15c; large 25c.

**CANDIDISSIMA.**—It grows about 3 feet high; bears pure white flowers. Each 15c; large plants 30c.



EXOCHORDIA

## CORNUS

**FLORIDA.**—(White Flowering Dogwood.)—An ornamental, spreading, irregularly shaped tree, producing large white flowers in spring, rich crimson foliage in fall. Ea. 15c; large 25c.

**STOLONIFERA.**—(Red Twigged Dogwood.)—Strong growing shrub; clusters of fine white flowers; stem and branches turn blood-red in winter. Very ornamental. Each 15c; large 25c.

## CORCORUS

**JAPONICA.**—(Kerria.)—A beautiful and graceful shrub from 2 to 3 ft. high; worthy a place on the finest lawn. The quantity of bloom makes it a prominent feature in any landscape effect. Almost constantly in bloom from June to October. Produces hundreds of large, double, yellow flowers. Ea. 15c; large 35c.

**VARIEGATA.**—A variety of Corcorus with nicely variegated foliage adding greatly to its natural grace and beauty. Each 15c; large 35c.

## CRATAEGUS

**DOUBLE RED FLOWERED.**—(True English Hawthorn.)—One of the finest large-flowering shrubs. Listed usually as an ornamental tree. Covered in spring with double bright red blossoms, deliciously fragrant. Is very beautiful and will attract attention in any planting. Each 50c; by express, large plants, 75c.



CRATAEGUS  
OR FLOWERING  
HAWTHORN



## HYDRANGEA

**NEW SNOWBALL.**—(*Arborescens Grandiflora Alba*.)—A magnificent new variety of the hardy hydrangea. Flowers are borne much more profusely than on the *Paniculata* and though the blooms are not so large they are pure white and more like the *Snowball*. Blooms in July and August when flowers of this type are scarce and is especially valued for this reason. We believe this will become very popular and give satisfaction. Each 15c; large 35c. Two-year-old plants for hedges, by express, per dozen \$2.50; per 100 \$18.00.

**PANICULATA GRANDIFLORA HYDRANGEA.**—The grandest and most popular of all shrubs, and hundreds of thousands of them are sold every year, and the demand is constantly increasing. It is unsurpassed for the lawn, a hedge, or cemetery planting. It readily attains a height of 5 to 7 feet; is hardy in all localities and in July and for two or three months the flowers are massive, cone-shaped, sometimes 10 inches in length, and changing from the original pure white to pink, and finally to a beautiful, rich, coppery red. Each 10c; doz. \$1.00. Per 100, by express, \$7.00. Large dormant plants, each 30c; doz. \$2.50. **Special.**—Two-year-old plants grown specially for hedges, by express, per 100 \$12.75; 25 for \$3.50.

**TREE HYDRANGEA.**—Large, specially grown plants of *Paniculata Grandiflora* in symmetrical tree form. Each, by express, 75c.

## LILAC.

**PERSIAN.**—A well known and strong growing shrub, bearing large, fragrant clusters of purple flowers very early in the spring. Each 20c; large plants 35c.

**FIERY PLUME.**—A novelty in lilacs. The brightest and nearest red flower of all the lilacs. Very showy and desirable. Each 25c; large plants 50c.

**NEW DOUBLE WHITE.**—This is a recent novelty of great merit and the finest flowering shrub introduced for many years. The truss is of large size, and produced in profusion. The individual flowers resemble miniature tuberoses. Each 25c; large plants 50c.

**COMMON.**—The old standard variety with bluish purple flowers. Each 15c; large 25c.

**SINGLE WHITE.**—Like above, but has white flowers, making it more desired by some. Each 15c; large 35c.



NEW SNOWBALL HYDRANGEA

## HEDGE PLANTS

Ornamental hedges are very popular, especially among dwellers in towns and cities; used for boundaries and screens. Most desirable for landscaping and add an effect not secured in any other way.

**HYDRANGEAS.**—The hardy hydrangeas are beautiful for tall hedges, rows or clump planting where they are to be used according to space available. Especially desirable along division fences or as permanent screens. Are easily trimmed to desired shapes and can be kept down to a moderate size or allowed to grow to a height of 8 or 10 feet if desired. See upper left hand column for prices.

**SPIREA.**—*Van Houtte*.—Illustrated in hedge formation on next page. Can be trimmed to form without injury. Graceful and beautiful without training. Bloom early in spring and produce wonderfully beautiful effects in masses, clumps or hedges. Ordinary size, by express, per doz. \$2.00; per 100 \$14.00. Large plants by express, per doz. \$2.50; 100 \$18.00.

**CORAL BERRY.**—(*Symphoricarpos Vulgaris*; see page 114.)—This is a nice hedge plant, growing naturally graceful, 2 to 3 feet high, and thrives throughout the country. It is frequently seen growing wild in meadows and in woodlands. Large plants, by express, per doz. \$2.00; 100 \$12.00.

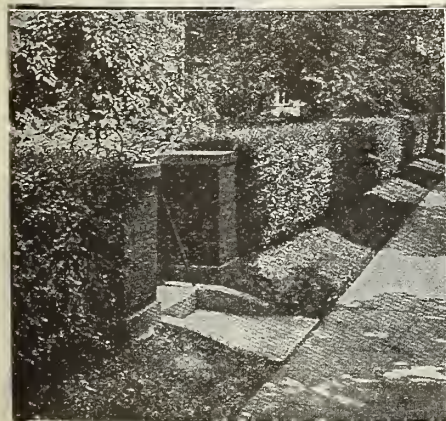
**JAPAN QUINCE.**—A thorny shrub used for fences or division hedges where protection is desired. Far superior to *Osage Orange* and is larger than *Barberry*. Bear training to form without damage. In the spring it is completely covered with dazzling scarlet flowers. Ordinary size plants, by express, per dozen \$1.25; per 100 \$8.00.



HEDGE OF HYDRANGEA PANICULATA GRANDIFLORA

**PRIVET.**—*California*.—A most vigorous grower of compact and regular form; foliage a beautiful shade of glossy, wax-like green which it retains well into the winter, being almost an evergreen. Sometimes winter kill in this latitude but is hardy throughout the east and south. For hedges plant 8 to 10 inches apart. Strong one-year-old plants per doz. 75c; per 100 \$6.00, prepaid. By express, per 100 \$5.00; 500 for \$17.50.

**Amurensis.**—Makes a splendid formal hedge about a home in the city or suburbs. Is a very handsome plant with glossy leaves and almost an evergreen. Fine for the North as it stands severest winters. It is the hardiest of all the privets and is the most popular among northern planters. South of Iowa line the *California* variety is generally more popular. Ea. 15c, doz. \$1.50, 100 \$11.50, prepaid. By exp., 100 \$9.00.



HEDGE OF AMURENSE PRIVET

**BARBERRY.**—*Purple Leaved.*—Handsome hedge plant; foliage always clean; deep, rich plum color; does not fade out in summer. Each 15c, doz. \$1.50, postpaid. Extra large, strong specimen plants 35c, \$3.00 per doz. By exp., 100 \$12.00.

**Thunbergii.**—Very pretty variety from Japan; dwarf, graceful habit; foliage is small, changing to beautiful bright red early in fall; showy. One of the prettiest hedge plants grown. Ea. 15c; doz. \$1.50. Large 25c; doz. \$2.50.



HEDGE OF BARBERRY



**POTENTILLA**

**FRUITICOSA.**—A small, bright-flowered shrub that grows well in moist situations. Growth upright, leaves narrow, silky; peculiar shreddy bark. Bright yellow flowers continuously from July. Each 15c, large 25c.

**PURPLE FRINGE**

Commonly called Smoke Tree. A large shrub with long, feathery flower stalks, giving it the appearance of being covered with a cloud of smoke. Each 15c, large 40c.

**ROBINIA**

**HISPIDA.**—Various known as "Sweet Fea Shrub," "Flowering Locust," "Moss Locust," and "Rose Acacia." The shrub of shrubs for bouquet makers. When in bloom it is really a big bouquet itself, full of dainty sprays of large, lovely, rose-pink blossoms of size and shape of sweet peas. Each 25c.

**SAMBUCUS**

**GOLDEN LEAF ELDER.**—Another year only adds to our high opinion of this shrub. It is the most showy of all shrubs for the lawn. Grows to a height of about 6 feet and has wide spreading branches. Its leaves are of dark, dazzling yellow color. Each 15c, doz. \$1.50. Large plants 30c.

**VARIEGATED.**—A variegated green and white sort. Each 15c, large plants 35c.

**CUT LEAVED.**—Elegantly divided leaves. Each 15c, large 30c.



**SPIREA VAN HOUTTEI** (*Bridal Wreath*) flowers white in showy bunches, remaining on the plants all winter. Each 15c, large plants 30c.

**WEIGELIA**

**ROSEA.**—No shrub in our large collection has attracted more attention. It is of robust but graceful growth, five to seven feet high, and produces immense numbers of superb large trumpet-shaped flowers in June and July, and also some in the fall. The plants frequently have more flowers than leaves. Flowers shade from dark pink to nearly white in same cluster. Each 15c, doz. \$1.50. Large 25c, doz. \$2.50.

**EVA RATHKA.**—A splendid new variety and perhaps the handsomest yet produced. Large purplish red flowers with rich, creamy white markings. Each 20c, large 40c.

**VARIEGATED.**—A neat, dwarf shrub, valuable for the clearly defined variegation of green, yellow and pink in its leaves; flowers delicate pink. A fine variegated-leaved shrub. Each 15c, large plants 35c.

**GRANDIFLORA WHITE.**—Like the Eva Rathka and equally as desirable. Flowers are pure white without shade or markings. Each 15c, large plants 35c.

**GREAT SHRUB OFFER**

Our special bargain of hardy shrubs. There is just enough to afford an opportunity for effective planting in the ordinary building spot.

A choice collection for permanent planting: 1 Deutzia; 1 Forsythia; 1 Spirea; 1 Hydrangea, Paniculata Grandiflora; 1 Weigelia, Rosea; 1 Corcorus; 1 Syringa; 1 Climbing Honeysuckle; 1 Potentilla; 1 Snowball. Ten different sorts altogether.

All postpaid 88c. Large two-year-old plants by express, not prepaid, \$2.00.

**SWEET PEPPER BUSH**

(Clethra.)—One of the handsomest of our native shrubs; pure white; delicious flowers in July and August. Each 15c, large 25c.

**SYMPHORICARPUS**

**RACEMOSUS.**—(Snowberry.)—Bear small pink flowers, followed by large white berries, which hang on most of the winter. Very showy and desirable. Small plants 10c, large 25c.

**VULGARIS.**—(Coral Berry.)—Is like above; has small red fruit. Each 10c, large plants 25c.

**SYRINGA**

**GRANDIFLORA.**—Is one of the strongest growing varieties with lovely, large, very fragrant flowers. Each 15c, large 30c.

**LE MOINEI.**—A charmingly fragrant variety. Flowers yellowish white. Each 15c, large 30c.

**SPIREA**

**BILLARDII.**—A strong growing variety; pink flowers. Each 15c, large plants 35c.

**PRUNIFOLIA.**—A plant of symmetrical growth; bears long, graceful sprays of pure white flowers in great profusion. Blooms in May. Each 10c, large plants 25c.

**DOUGLASH.**—Somewhat larger flowered than Billardii. Spikes of deep rose-colored flowers. Each 15c, large plants 25c.

**ANTHONY WATERER.**—Makes a dwarf bush 18 to 36 in. high, covered from spring until late in fall with large heads of crimson flowers. Fine for borders and hedges. Ea. 10c, doz. 85c; large 25c, doz. \$2.00.

**VAN HOUTTEI.**—(Bridal Wreath.)—The hardiest of all Spiraea. The bushes form fine compact clumps, the pure white flowers borne in such masses that they form great plumes, drooping gracefully, giving the appearance of a snow-bank of white bloom. Each 15c, doz. \$1.25, 100 \$8.50. Large, each 25c, doz. \$2.00, 100 by express \$14.00.

**THUNDERBIA.**—Slender, gracefully drooping branches. Has single white flower. Blooms early. Each 15c, large plants 30c.

**SNOWBALL**

**COMMON.**—A well known and popular shrub covered with dense white flowers, which gives it its name. Each 15c, large plants 25c.

**JAPAN.**—A valuable improvement on the common Snowball; the flowers are smaller and more numerous, frequently as many as 20 on a stem 18 in. long. Each 15c, large 35c.

**TAMARIX**

Foliage light, feathery and graceful; sage blue in color and very charming. Blooms through summer and autumn; flowers pink. Each 10c, extra large plants 35c.

**VIBURNUM**

**OPULUS.**—(High Bush Cranberry.)—Handsome and dense foliage; the flowers white in drooping flat cymes,



**GRANDIFLORA SYRINGA.**



**JAPAN SNOWBALL**



**WEIGELIA ROSEA**



## HARDY PERENNIAL PLANTS

It is really wonderful the immense demand which there has been for these hardy plants during the past few years, our trade in this line multiplying fourfold every year. Our customers are learning that they require less care and are more satisfactory with ordinary culture than most other classes of plants. When once set out they bloom year after year, the flowers really becoming better as the plants grow older. These varieties are all hardy, the tops dying down every winter, but coming up again in the spring. We prepay the postage on all of these.

### ANEMONE

**WHIRLWIND.**—Beautiful Japanese Anemone; has proved one of the finest hardy fall-blooming plants cultivated; grows to a height of 3 feet, holding up on stiff stems double flowers from two to three inches across, of pure white, and heavy, waxy texture. A large bed of this is worth going miles to see, and the large, graceful flowers are fine for cutting. Each 15c, doz. \$1.50.

**QUEEN CHARLOTTE.**—Similar to above but earlier and of beautiful shell pink color. An early flowering pink Anemone. Each 15c, doz. \$1.50.

### ACHILLEA

**THE PEARL.**—Beyond question the finest of all plants for cemetery planting. The flowers are good sized, forming a beautiful plant 18 inches high, completely covered with pure white flowers from July until frost. We cannot too highly recommend this for general planting. Cut shows the heads of bloom which cover the plant. Each 10c, dozen 75c.

**MILLIFOLIUM ROSEUM.**—Finely cut, deep green foliage. Bears a mass of handsome, bright pink flowers in heads or umbels. Well worth growing, both as a border plant and for cutting. Each 10c, doz. \$1.00.

### ANTHEMIS

**GOLDEN.**—A fine yellow flowered perennial; a continuous bloomer the entire summer in both wet and dry weather. Flowers of the exact form of a Marguerite daisy but clear yellow. Each 10c, doz. \$1.00.

### ARABIS

**ALPINA.**—Very desirable early spring flowering plant for edgings and borders. Forms dense growth and is completely covered with pure white flowers. Each 10c, dozen \$1.00.



CANTERBURY BELLS

which rise its panicles of small, feathery white blossoms, the embodiment of grace and delicacy. Give a half shaded position. Each 15c.

### BABY'S BREATH

(Gypsophila Paniculata.)—This possesses a grace not found in any other perennial, and when in bloom it forms a symmetrical mass 2 to 3 feet high, of minute white flowers, giving it a beautiful mist-like appearance. For cutting purposes it is exquisite, especially in combination with high-colored flowers. Each 10c, doz. \$1.00.

### CANTERBURY BELLS

We can furnish assorted colors. These are wonderfully fine perennials, which if well grown will often reach 3 feet in height. Color of flowers blue, rose or white. Ea. 10c, doz. \$1.00. Large clumps, each 25c.

### DOUBLE BUTTERCUP

This is a dainty little novelty. The flower is from one-half to three-fourths inch in diameter, perfectly double and of a peculiarly shining bright yellow color, as if varnished; blossoms produced in greatest profusion. Ladies and children go into ecstasies over them. Ea. 15c, doz. \$1.50.

### DICENTRA (Bleeding Heart)

**SPECTABILIS.**—The old Bleeding Heart, as lovely as ever. In early spring it bears its long chain of pendulous bloom of exquisite beauty. One of the most satisfactory of permanent plants, and a general favorite. To secure best results keep soil loose and rich. Each 15c, doz. \$1.40.



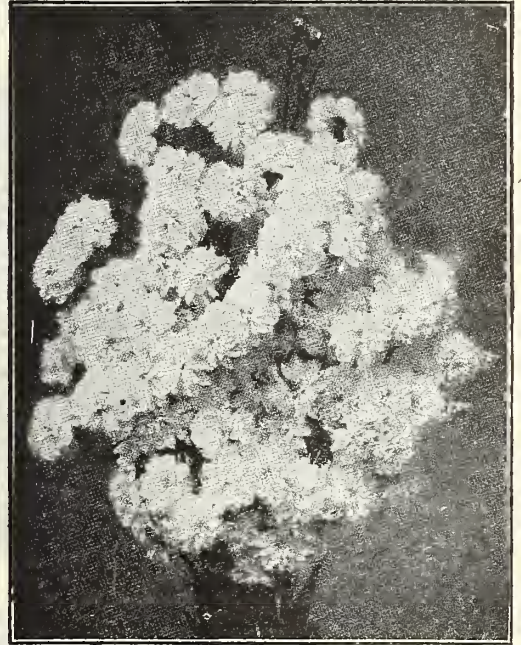
AQUILEGIA

### AQUILEGIA

These beautiful flowers, often called Columbines, are always beautiful and attractive, reminding one of the woods. Many handsome colors. Ea. 15c, doz. \$1.25. Large clumps 25c.

### ASTILBE

**JAPONICA.**—(Spirea Japonica.)—Hardy everywhere, growing about two feet high, in compact shape, with handsome foliage, from above



PEARL ACHILLEA

### ARUNDO DONAX

An ornamental plant having wide, but grass-like, foliage variegated white and green. Very showy; desirable for bedding. Ea. 15c, doz. \$1.50.

### ASCLEPIAS

**TUBEROSA.**—(Butterfly Flower.)—Bright orange flower; very showy. Plant is a native perennial, growing about 2 ft. high, blooming beautifully in July and August. Each 15c.

### ALYSSUM

**SAXTILE COMPACTUM.**—Fine plant for rockeries or for borders, growing about 12 in. high; produces bright yellow flowers in masses. Each 15c, doz. \$1.50.



BLEEDING HEART

OUR HARDY PLANTS ARE ALL ACCLIMATED IN IOWA AND WILL GIVE BEST OF SATISFACTION TO NORTHERN PLANTERS.



**COREOPSIS**

**GRANDIFLORA.**—Very desirable for permanent plantings, producing flowers of bright yellow from June until frost. The flowers last a long time in bouquets. Each 15c, doz. \$1.50.

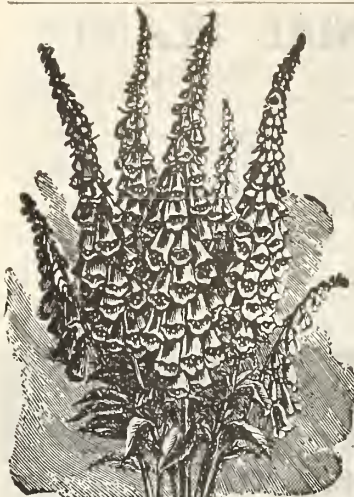
**DAY LILY**

**WHITE.**—(Funkia.)—A very beautiful plant for partly shady places. Large, round, heart-shaped leaves, clusters of fragrant, lily-shaped white flowers. Each 15c, doz. \$1.50.

**BLUE.**—Like above only flowers are of a lovely blue color, borne on tall spikes. Each 10c, doz. \$1.00.

**VARIEGATED.**—Beautifully mottled dark green and pure white leaves, lilac flowers. Each 15c, doz. \$1.50.

**ONE EACH OF THE THREE VARIETIES OF DAY LILY POSTPAID FOR 30c.**



FOXGLOVE

**FOXGLOVE**

(Digitalis.)—These are most satisfactory summer flowering hardy perennials, succeeding under almost all conditions, and with but trifling attention will give wealth of flowers during June and July. They are used extensively with good effect in shrubberies and in other shady situations. Each 10c, doz. \$1.00.

**HOLLYHOCK**

These old favorites are again becoming popular. Both showy and desirable for massing and backgrounds. Mixed colors, including black, white, pink, yellow and red. Each 15c, doz. \$1.50.

**HELIANTHUS**

**MULTIFLORUS PLENUS.**—This should be in every garden and will give entire satisfaction. The flowers are from 2 to 4 inches in diameter, double as any double dahlia, and cover the plant. The color is a bright golden yellow. Give it a sunny position and rich soil. Each 15c, doz. \$1.75.



CRIMSON EYE HIBISCUS

**MEHAN'S MARVEL MALLOW**

Magnificent new strain of hardy Mallow; for size, profusion of bloom and rich coloring among most beautiful and striking perennials. Blossoms 8 to 10 in. across and colors from fiery crimson to pure white. All shades of pinks and reds are rich in coloring. Ea. 20c, doz. \$2.00.



WHITE DAY LILY

**HIBISCUS**

**CRIMSON EYE.**—This elegant Hibiscus is a robust grower, with red stems and green foliage. The flowers are immense in size, often measuring 20 inches in circumference. The color is of purest white, with a large spot of deep velvety crimson in the center of each flower. It will succeed anywhere; is perfectly hardy. Each 15c, dozen \$1.25. Extra large plants, each 20c.

**MOSCHEUTUS.**—Also called Swamp Rose Mallow. A splendid pink Hibiscus with eye of darker shade, free flowering and beautiful. Each 10c, dozen \$1.00.

**GARDEN PINKS**

Dwarf hardy garden plants that will grow anywhere and increase in beauty every year. A universal favorite because of delightful clove-like fragrance.

**LAURA WILMER.**—A choice variegated variety of great beauty. Each 10c, doz. \$1.00.

**ABBOTSFORD.**—Deep carmine, marbled with white; has clove fragrance. Each 15c, dozen \$1.25.

**ELSIE.**—Bright rose with maroon center. A general effect pleasing and attractive. Each 15c, dozen \$1.50.

**WHITE RESERVE.**—A clear white. Each 15c, dozen \$1.50.

**HER MAJESTY.**—A grand variety; plants grow to an immense size, spreading and producing great numbers of pure white, double flowers. Each 10c, dozen \$1.00.

**HOMER.**—Flower contains a dark center in bright red ground color. Each 15c, dozen \$1.50.

**MIXED VARIETIES.**—Desirable for large beds or borders. Doz. 65c, 100 for \$4.00. Large clumps named varieties of Garden Pinks, 25c each, per dozen \$2.00.



GAILARDIA GRANDIFLORA

**DELPHINIUM**

**FORMOSUM.**—(Hardy Larkspur.)—Its long spikes of bright blue flowers are produced continually from June till frost. Handsome in clumps. Ea. 15c, doz. \$1.50.

**GAILARDIA**

**GRANDIFLORA.**—Begin to flower in June and continue one mass of bloom the entire season. Will thrive in almost any position or in any soil, but respond freely to liberal feeding. Being perfectly hardy, they require absolutely no protection. The flowers are large, from 2½ to 3½ inches in diameter. They are produced on long stems, excellent for cutting and of gorgeous coloring. Center is dark reddish brown. Petals brilliant scarlet, crimson, orange and vermilion. Each 15c, doz. \$1.50. Large clumps 25c.



HELIANTHUS MULTIFLORUS PLENUS



HARDY GARDEN PINK

A PERMANENT BED OF HARDY GARDEN PINKS IN MIXED COLORS IS VERY DESIRABLE FOR ITS BEAUTY AND FRAGRANCE.



## GERMAN IRIS

The true "Fleur-de-Lis," the national flower of France. Perfectly hardy, thrive anywhere, grow and bloom luxuriantly. Unless otherwise noted, price of any variety is 10c each, doz. \$1.00. Large clumps each 30c, doz. \$3.00.

**ALEXANDER HUMBOLDT.**—Standards violet, falls purple, veined white. Bears large, bold flowers in clusters of five on strong stems.

**CELESTE.**—Large open flower of pure celestial blue, changing to porcelain blue as it ages. Profuse blooms well above the foliage.

**FLAVESCENS.**—Standards cream white, falls primrose veined bronze. Tall growing and late blooming variety.

**FLORENTINA.**—Rich indigo blue throughout. Flowers large, first in bloom and quite lasting. A very satisfactory sort.

**FLORENTINA ALBA.**—Is the best white iris. A lovely soft shade of color, very early and fine. Plant with Florentina for contrast.

**HONORABLE.**—Standards bright yellow, falls chestnut brown, veined white. Free bloomer. Striking in contrast planting.

**LA TENDEE.**—Standards lavender, falls light blue, thickly veined violet. Very pleasing, clean, bright color.

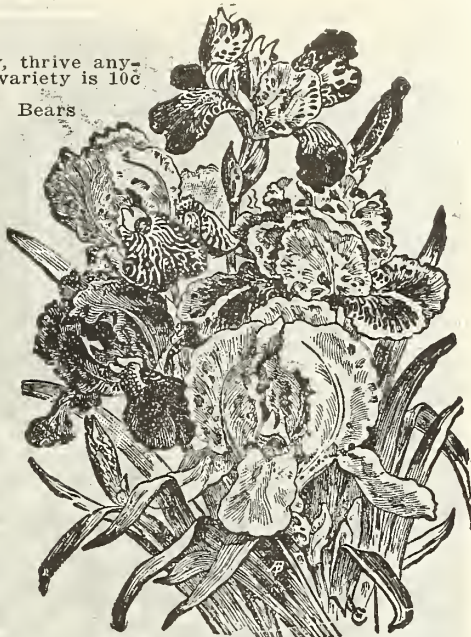
**MADAME CHEREAU.**—Is pearly white, edged with a broad margin of violet. The flowers crumpled beautifully. A satisfactory late sort.

**PRESIDENT THIERS.**—Standard mauve, penciled brown at base. Falls purple, striped brown and white. Tall and vigorous.

**PLUMERI.**—A clear wine red throughout. A distinct color in iris. Plant throws tall stalk and is a free bloomer. Each 15c, dozen \$1.50.

**SAN SOUL.**—Unique color combination, violet and yellow, flushed apricot. Blooms freely and holds its flowers well.

**SHAKESPEARE.**—Standards light yellow, veined seal brown, falls deep carmine violet. Striking in beauty, with clean cut colors.



GERMAN IRIS Plant throws tall stalk and is

## SUCCESION IRIS BED

One plant each of the twelve named sorts of German Iris, giving a contrast of color from first early spring to the middle of June, postpaid, for only \$1.00. This collection in field-grown clumps for immediate effect, price is \$2.50.

## JAPANESE IRIS

These magnificent Iris are among the most beautiful summer-flowering plants. Of immense size and coloring exquisite. They send up to a height of 3 feet a dozen flowering spikes, each bearing two to four blossoms 8 or 10 in. across, and of most beautiful markings and color combinations—white, indigo, purple, blue, yellow, etc. Except the orchid no other can compare with it; easily grown as a potato, in any good soil. Plant with full exposure to sun. They are a joy for a lifetime, blooming freely in June and July. Can supply all colors. Double mixed, each 15c, doz. \$1.50. Single mixed, each 15c, doz. \$1.25.



PERENNIAL CANDYTUFT

## IRIS SIBERICA

A favorite variety with blue flowers. Foliage is smaller and much finer than the German Iris and more nearly resembling the Japanese. Each 15c, doz. 60c.

## IRIS PUMILA

A dwarf, early blooming sort, fine for borders and edgings. Violet blue flowers. Each 5c, doz. 50c, 100 \$3.00.

## MYRTLE

**GREEN.**—A handsome trailing plant largely used for cemetery planting. Has beautiful, glossy, dark green leaves which form a mat over the surface of the ground. Flowers are heavenly blue. Each 10c, doz. 90c, 100 for \$6.00.

## PLATYCODON (Wahlenbergia)

A bushy, herbaceous plant 2 to 3 feet, with handsome, deep green foliage and bearing grand clusters of beautiful, large, bell-shaped flowers; blooms very profusely and continuously all summer if flowers are removed as soon as they begin to fade. Flowers are of large size, being 2½ to 3 inches in diameter, and the various shades of blue, lavender and white. The plants increase in size from year to year and are sure to please. Single flowered, each 15c.

## PARDANTHUS

(Blackberry Lily.)—Quite curious and handsome. The flowers are orange colored, spotted with brown, about two inches in diameter. The blossoms are followed by seed clusters like a blackberry in size, shape and color. Are very pleasing because of oddity, and they are true perennials, growing stronger and more vigorous each year. Each 10c, per dozen 85c.





**PERENNIAL ASTER**

Very showy, strong growing and free flowering, presenting a mass of small, bright flowers in large clusters during late summer and autumn. Many shades of color. Each 10c, dozen \$1.00.

**PENTSTEMON**

A fine perennial plant in varied coloring of blooms. Flowers are unusually large, often two inches in diameter, and resembling gloxinias in form and markings. Illustration of a single flower may be noted on page 70. Blooms continuously from June to October and is very prolific. Each 15c, large plants 25c.

**PYRETHRUM**

**GRANDIFLORUM.**—A summer bloomer, with flowers closely resembling the daisy. Splendid for cutting as the blooms will hold their form and color for a week. Each 15c, doz. \$1.50.

**POPPY**

**ICELAN.**—Has fern-like foliage; bears an immense number of elegant flowers. Ea. 15c, doz. \$1.25.

**ORIENTAL.**—Mammoth flowers of gorgeous colors. Each 15c, dozen \$1.25.

**RUDBECKIA**

**GOLDEN GLOW.**—A glorious, well known and very popular hardy plant that should find a place in every garden. It is of extra fine habit; vigorous growth, with early, continuous and immense blooming qualities. The stems are long and gracefully poised. It attains a height of 6 to 8 feet, and a small plant set out in the spring will produce hundreds of blossoms during August and September, each as large as a good sized chrysanthemum. It is of easiest culture and sure to please all. Nice for a screen row at back of lawn. Price 10c, dozen \$1.00.

**RIBBON GRASS**

Large, variegated, striped grass; foliage is green, striped white. No two leaves alike. Pretty in clumps or borders. Each 10c, dozen 75c.

**STOKESIA**

**CYANEA.**—It produces showy, aster-like, deep blue flowers, which measure from 4 to 5 inches across. Each 15c, dozen \$1.50.

**SAAPONARIA**

(Bouncing Betsey.)—Old-fashioned perennial with large, double, pink flowers. Each 10c, doz. 75c.

**BLUE SPIREA**

(Caryopteris.)—This is a handsome shrubby plant for pots or open ground. Bloom from midsummer until heavy frosts. Each 10c, doz. \$1.00. Field grown, each 25c.

**SWEET WILLIAM**

Well known, free blooming, hardy perennial plants which produce masses of lovely, brilliant, sweet-scented flowers through a long period, making a splendid effect in beds. One foot high. Flowers are borne on heads or umbels with individual flowers nearly an inch across. Color white, pink, crimson, purple, etc., with rich markings. Single, each 10c, doz. 85c; double, each 15c, dozen \$1.00.

**VIOLETS**

Of all perfumes that of violets is no doubt the most delicate and pleasant. Grow and bloom freely if given a cool situation, but will not succeed in a warm place. Cover well to insure protection in winter.

**SWANLEY WHITE.**—Finest double variety. Of vigorous growth, producing a great many pure white, double flowers. Has such delightful odor it is called "Queen of Fragrance." Each 15c, dozen \$1.50.

**MARIE LOUISE.**—To contrast with white. Color deep violet blue; very fragrant; continual bloomer. Is of easy growth. Each 15c, dozen \$1.50.

**CALIFORNIA.**—Grand single variety. Is a sturdy grower with dense, heavy foliage and free from disease. Flowers fragrant, a clear, unfading violet blue. Hardest of all. Each 10c, dozen \$1.00.

**PRINCESS OF WALES.**—Broad, pansy-like flowers of a beautiful violet purple shade, with lighter center. A vigorous growing plant with clean, healthy foliage and stiff, long stems. Each 10c, dozen \$1.00.

**YUCCA**

**FILAMENTOSA.**—(Adam's Needle.)—Tropical looking plant with long, narrow leaves, remains green entire year. Grows in clumps and throws up flower stalks from 3 to 4 ft. high, from which hang 100 to 300 creamy white, bell-shaped flowers. It blooms a long time. Ea. 15c, doz. \$1.50. Strong two-year-old 30c.



SHASTA DAISY

**SHASTA DAISY**

This is one of the most marvelous productions in the flower line. It can be grown out of doors by anybody where it is not cold enough to kill oak trees. It is perennial and blooms better and more abundantly each season. The flowers are extremely large and graceful, averaging about 4 inches in diameter, with three or more rows of petals of the purest glistening whiteness, and are borne on single, stiff, wiry stems, nearly 2 feet long. Strong plants 15c each, dozen \$1.25. Field grown clumps 25c.

**SEA PINK**

**ARMERIA, OR THRIFT.**—Foliage narrow and grass-like; bears compact heads of flowers of handsome pink. Entirely hardy. Ea. 10c, doz. \$1.

**TRITOMA**

**PFITZERI.**—Sometimes called Flaming Torch or Red Hot Poker Plant. At floral exhibitions and when sent out as cut flowers to market, it attracts great attention. Grows from 3 to 4 feet high, the flower measuring 12 to 15 inches long; dazzling scarlet tinged rich orange. Each 15c, dozen \$1.50.



TRITOMA PFITZERI



YUCCA FILAMENTOSA.

GOLDEN GLOW, SHASTA DAISY, SWEET WILLIAM, TRITOMA AND YUCCA ARE SUITED TO NATURAL OR FORMAL PLANTING.



## SUPERB PÆONIES

The Paeony is truly a most noble flower and rivals the rose in brilliancy of color and perfection of bloom, while greatly surpassing it in size and stately grandeur. One writer has well said that the "Paeony fully equals the rose except in poetry, perfume, thorns, bugs and disease." They are of the easiest culture, most

vigorous habit, and free from disease and insects. The foliage is rich, glossy and ornamental, even when plants are not in bloom. Many of the newer varieties are quite fragrant and no other flower is so well adapted for large and showy bouquets. Plant the paeonies this year, plant lots of them in rows, beds or as specimen plants on the lawn. They make a grand show. May be transplanted either in spring or fall. Set out early in spring as possible. Fall planting should be done in September or October, and they should be protected the first winter slightly. They may be left undisturbed for twenty years or more. In planting set the crowns two inches below surface. We pay postage.

### WHITE PÆONIES

**FESTIVA MAXIMA.**—(See Cut No. 1.)—By far the finest double white paeony grown. The flower is of immense size, perfectly globular, the guard petals being large, while the inner petals are crimped, thus making it appear extremely double. The color is of the purest snow white with sometimes slight carmine marks in the center. Our price only 50c, doz. \$5.00.

**COURONNE D'OR.**—This is a peculiar variety in form, as the blooms are rather flat, but in the center is a tuft of white, with a few crimson splashes like Festiva Maxima. It grows medium height and blooms rather later than other white sorts. Strong and vigorous. Each 50c.

**QUEEN VICTORIA.**—(See Cut No. 2.)—Very double and compact; color flesh white, white center, petals lightly spotted with red. A half dozen of these make a magnificent bed. Each 25c, doz. \$2.50.

**GOLDEN HARVEST.**—This is probably the nearest approach to a yellow paeony. Outer petals light blush, light yellow center. Very prolific, bearing flowers in clusters of three. Each 60c, dozen \$5.50.

**MARIE LEMOINE.**—A rare and magnificent variety; flowers are enormous, opening a light blush pink, changing to white when flower is mature. Very late bloomer. Scarce. Ea. 50c, doz. \$5.00.

### PINK AND ROSE PÆONIES

**VICTORIA TRICOLOR.**—This is a very large, full flower; outer petals pale rose, inner petals white and center bright rose, thus showing three shades of color, from which it takes its name. Ea. 25c, doz. \$2.50.

**ANDRE LAURIES.**—A very double flower of deep, bright rose. Blooms late in the season. Strong, robust grower. Each 25c, dozen \$2.50.

**HUMEL.**—(See Cut No. 3.)—Very large and full and one of the finest paeonies; color is bright pink and it is delightfully fragrant. Elegant foliage. A fine specimen for lawns. Blooms late. Each 25c, dozen \$2.50.

**FLORAL TREASURE.**—(See Cut No. 4.)—One of the finest in the entire list. The flowers are extra large and very double; exceedingly prolific; color soft, delicate blush pink. Each 60c, dozen \$4.00.

**LA ESPERANCE.**—Is an exceedingly fine, vivid rose-colored flower, growing compact and highly perfumed. Early and free flowering. Each 30c, dozen \$3.00.

**JENNY LIND.**—A lovely shell pink flower of extra size and early blooming. Plant strong and free flowering. One of the best of the light tinted sorts. Each 25c, dozen \$2.50.

### BRIGHT AND DARK RED PÆONIES

**MARECHAL VALIANT.**—This is a most beautiful solid flower of deep rose color, differing from most sorts in the solid flower having practically no division of outer petals and center. Very double; late flowering. Each 35c, dozen \$3.50.

**GRANDIFLORA RUBRA.**—(See Cut No. 5.)—Has extra large balls of blood red, magnificent flowers. Probably the largest red variety in existence, often 8 or 9 inches across. Give it rich soil and you will be surprised. Each 50c, dozen \$4.75.

**RUBRA TRIUMPHANS.**—An early blooming and very sweet-scented flower of rich, brilliant, glowing, satiny crimson color. Each 35c, dozen \$3.00.

**POTSIL.**—The color is a deep, dense, bright crimson and it is a free bloomer. A beautiful and very desirable variety. Each 25c, per dozen \$2.50.

**PRINCE IMPERIAL.**—Deep, purplish crimson, shining and satiny. The flower is very double, rich and striking and blooms early. A splendid sort for contrast with the lighter shades. Each 50c, dozen \$4.50.

### OUR PÆONY BARGAIN

One white, one pink, and one red, our choice of varieties, but good plants and will produce good flowers. A real bargain this season.

THREE DIFFERENT COLORS, POSTPAID, FOR 50 CENTS.

### FIVE FAVORITES PÆONY COLLECTION

REMARKABLY FINE FOR A PERMANENT BED

One strong root of each of five choice varieties, five beautiful colors, postpaid, for only \$1.50.

All are free bloomers, with flowers of largest size, and the contrast in colors will afford the grower the greatest opportunity for mixed bouquets of these wondrous blossoms. In our opinion, these are the most gorgeous flowers, and this the greatest opportunity in all our hardy plant department.

**Festiva Maxima.**—White, blotch of red in center.

**Queen Victoria.**—Like above, somewhat smaller.

**Floral Treasure.**—Light rose pink; very fine.

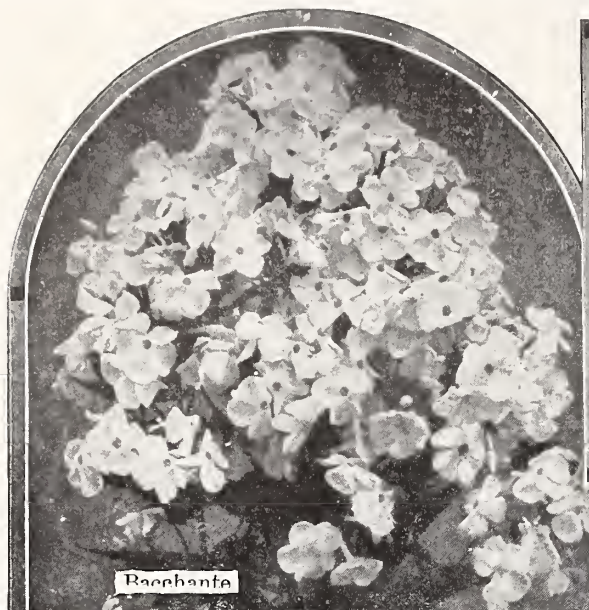
**Humel.**—Bright pink, brighter than above.

**Grandiflora Rubra.**—Deep blood red.

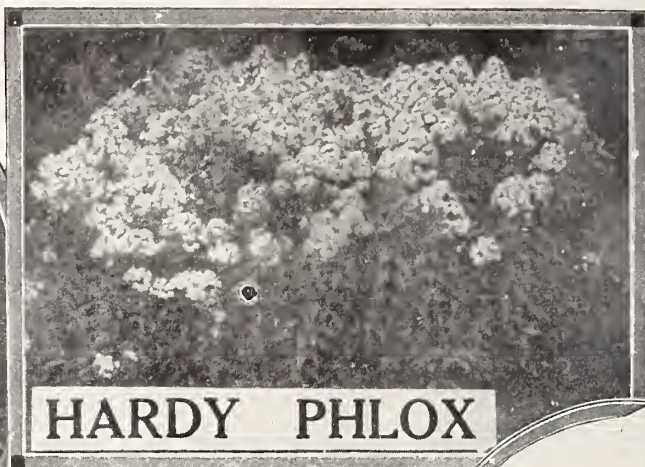
Five Favorite Paeonies, \$1.50, Postpaid

THE FIVE FAVORITE PÆONY OFFER IS ONE OF THE BEST BARGAINS IN ENTIRE CATALOGUE FOR PERMANENT PLANTING.





Bacchante



## HARDY PHLOX

No hardy perennials are more showy or effective than a fine collection of hardy phloxes, and the new and improved varieties will add much to their popularity. Flowers are very large and have exceedingly brilliant shades of color. They bloom from spring until very late fall. If massed in good soil, kept loose, the result will be a splendid show of immense flowers intermingled red and white.

**BACCHANTE.**—A tall growing variety of light pink or rose shade, producing good sized heads of attractive blooms. Each 15c.

**CHAMPS ELYSEE.**—A light purple or magenta blossom which is quite attractive. It is rather a dwarf sort, but a good grower and produces large blooms. Each 15c.

**COLIBRI.**—A very late bloomer of good size and form. Color white with crimson center. General appearance is bright with decided contrast in color. Each 15c.

**EUROPA.**—A splendid new sort of bright, attractive appearance. Florets are white with rose pink eye. The plants grow tall and strong and bear large heads of bloom in abundance. Each 15c.

**ECLAIR.**—Light purplish crimson with an outer shading of lighter pink. An attractive flower and plant of good habit. Each 15c.

**HERMINE.**—Most dwarf sort, growing only about 10 inches high. Pure white flowers. Suitable for outer edging of phlox bed. Each 10c.

**OBEGARTNER WITIG.**—This is one of the finest of phloxes. Strong growth, large truss and flower of bright purplish red with bright carmine eye. Each 15c.

**PANTHEON.**—Bright carmine rose blossom of great beauty. One of the most popular. Each 15c.

**SUNSHINE.**—A composite flower of great beauty. The ground color is bright red, with deep crimson eye and border of light pink. A popular variety. Each 15c.

**VAN LOSSBURG.**—A magnificent pure white variety. Not only the flower heads are extra large, but the individual florets are larger than ordinary kinds. Each 10c.

**VESUVIUS.**—This is a very bright, attractive sort. In color bright red with purple eye. A combination quite distinctive. Good blooms on strong plants. Each 15c.

**MIXED VARIETIES.**—A fine assortment. Each 10c; dozen 85c. Large field-grown clumps, each 25c.

## CREeping PHLOX

(Phlox Sublata.)—The Creeping Phloxes have a charming beauty and, for general usefulness, are not surpassed by any flower that grows. They will thrive in any situation, except a very shady one; and in any soil, no matter how poor, unless it is very wet. They are absolutely hardy without protection. They have neat, evergreen foliage, and when in bloom, during the months of April and May, their multitude of lovely pink, white or blue flowers cover everything beneath as completely as carpets cover the floor. Bloom again in September, but not so freely. They do well on good soil, but are also desirable for covering rocky hill-sides, sandy slopes, bare ground too poor to grow anything else, and for edging borders of hardy plants or shrubbery they are not to be surpassed. Botanically known as Phlox Sublata. We can furnish three colors: Pure white, deep pink, and light blue. Each 10c, dozen 75c, per 100 \$5.00.



PHLOX SUBLATA, OR CREEPING PHLOX  
Pure white, deep pink, and light blue. Each 10c, dozen 75c, per 100 \$5.00.



Van Lossburg



Europa



## NURSERY STOCK

All fruit trees on this page are two and three years old, five to seven feet high, and are sure to please.

Orders cannot be executed after May 1st, as stock does not transplant well after the growth begins.

No home is complete without fruit. It is essential that you secure good plants and trees to grow good fruit. We aim to send out the very best stock, carefully packed for shipping. Fifty or more of any sort at the hundred rate; purchaser to pay transportation charges by express or freight on all nursery stock unless otherwise quoted. Orders must amount to at least one dollar. These are shipped direct from the nursery and cannot be sent with other goods. Ask for special prices on large orders.

## CHERRIES

Price 50c each, dozen \$5.00.

**EARLY RICHMOND.**—Medium size, dark red, juicy, acid flavor. Unsurpassed for cooking. The standard early variety in the middle west.

**MONTMORENCY.**—Large red acid cherry; is larger than Early Richmond and about ten days later. A superior sort for home use.

**ENGLISH MORELLO.**—Deep, dark red. Late. WRAGG.—Large, late acid variety, dark purple; very productive.

## PEACHES

Each 40c, dozen \$3.50.

**CROSBY.**—Medium size, bright orange yellow, streaked with carmine. One of the best standard sorts and claimed to be the hardiest of all. Ripens in September.

**ELBERTA.**—The most popular early market sort. Large, bright lemon yellow, with bluish cheeks. Ripens in early August.

**CHAMPION.**—Fruit large, beautiful in appearance, excellent flavor, skin creamy white with red cheeks, extremely hardy with free stones. Ripens in late August.

**BOKHARA.**—Originally imported from Russia. Grown successfully in Iowa. Is perfectly hardy. Never winter-kills, even when 30 below zero. Freestone. Fruit medium size, handsome yellow with bluish cheek; flesh white, juicy and fine flavored. Medium early.

## PLUMS

By express, each 50c, dozen \$5.00.

**ABUNDANCE.**—Hardiest of Japanese varieties. Large, showy and fine quality.

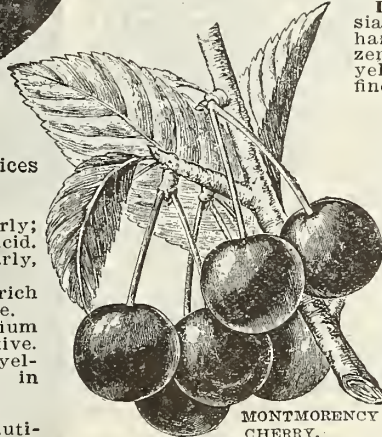
**BURBANK.**—Considered by some to be the best of all the European sorts. Color clear cherry red with thin lilac bloom. Flesh deep yellow, very sweet and agreeable.

**DeSOTO.**—Bright red. Very prolific, of good quality. A standard native variety.

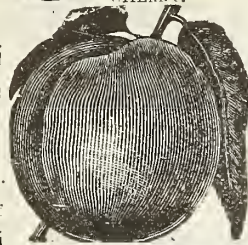
**FOREST GARDEN.**—Large, mottled red and yellow, very sweet and rich.

**WEAVER.**—Flesh firm, red, juicy, with flavor resembling apricot, freestone, early bearer and very productive, hardy and said to be curculio proof.

**WILD GOOSE.**—Large, rich and melting; delicious. Strong grower and prolific.



MONTMORENCY CHERRY.



BOXHARA PEACH



ABUNDANCE PLUM



KIEFFER PEAR

## PEARS

Any of following by exp. 50c each, doz. \$5.00.

**CLAPP'S FAVORITE.**—Very large, yellow and dull red with russet specks. Rich and melting. Ripens in August.

**KIEFFER.**—Large, rich colored and good quality. Excellent for canning; will keep until winter. Hardy. Ripens in October.

**BARTLETT.**—Large size, excellent quality. A leading variety. Ripens in August.

**SECKEL.**—Small, but of excellent quality; very hardy. Ripens in September.

**WORDEN SECKEL.**—Seedling of Seckel but larger. Best quality. Ripens September.



DUCHESSE AND JONATHAN APPLE.

## APPLES

Price 40c each, \$4.50 per doz. Ask for prices by the hundred.

### Summer Varieties.

**YELLOW TRANSPARENT.**—Very early; light yellow; medium size; juicy, sub-acid.

**RED JUNE.**—Choice quality, very early, bright dark red, small to medium size.

**BENONI.**—Medium size, bright red; rich flavor, tender and juicy. Very productive.

**DUCHESSE.**—Yellow, striped red; medium to large; extremely hardy and productive.

**EARLY HARVEST.**—Large, golden yellow; splendid quality. Very popular in Iowa for many years.

### Autumn Varieties.

**MAIDEN'S BEUSH.**—Yellow with beautiful bluish cheek. Good quality. Medium large.

**FAMEUSE.**—(Snow Apple.)—Deep dark red, flesh very white, juicy and rich. Splendid sort.

**RAMBO.**—Small to medium, striped yellow and red. Quality extra choice.

**AUTUMN STRAWBERRY.**—Beautiful striped fruit of yellow and red. Medium size, fine quality.

**RAMSDELL SWEET.**—Large. Rather oblong shape. Dark red. Best fall sweet apple.

### Winter Varieties.

**BALDWIN.**—Famous eastern market apple. Large, bright red, crisp, juicy and rich.

**BANANA.**—Large, golden yellow, bluish cheek. Of splendid quality. Popular with western orchardists.

**BEN DAVIS.**—Large, red, striped yellow, good quality, good keeper. Profitable market sort.

**DELICIOUS.**—Large, brilliant red, shading to a golden yellow at blossom end. Extra quality.

**GRIMES GOLDEN.**—Large, golden yellow. Favorite sort because of extra choice quality.

**GENETIN.**—(Rawley's Janet.)—Small to medium, red and yellow striped. Very productive, long keeper.

**JONATHAN.**—Most popular of all. Large, deep red. Rich flavor, juicy and sweet.

**NORTHWESTERN GREENING.**—Large, light green. The fruit has been kept for a year.

**TALMAN'S SWEET.**—Medium size. Pale whitish yellow. Good quality. Standard sweet apple.

**WEALTHY.**—Large, red, showy, sub-acid and productive. Most popular of all.

**WINESAP.**—Medium. Deep red. Quality very fine. Rich, crisp flesh, sub-acid flavor. Very popular.

**WOLF RIVER.**—Largest of all; grow to weigh 4 lbs. Quality fair. Yellow, striped light red. Productive.

WE CAN SUPPLY TRANSCENDENT, HYSLOP AND WHITNEY CRAB APPLE TREES AT THE SAME PRICE AS APPLE TREES.



## SHADE TREES

We shall be pleased to supply our customers with any of the following Shade or Ornamental Trees at prices given. Please remember in ordering them that they come direct from the nursery and cannot be shipped in the same package with any other goods except nursery stock.

**ASH—American White.**—Fine, hardy trees of symmetrical, rapid growth. 5 to 6 ft., 30c each; \$2.50 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

**BOX ELDER.**—Well known, quick-growing, hardy tree. Succeeds everywhere. 5 to 6 ft., each 30c; \$2.50 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

**CAROLINA POPLAR.**—Takes first rank among rapid growing trees. It thrives everywhere. Resembles Cottonwood but does not bear seed. 5 to 6 ft., 30c each; \$2.50 per 10; 6 ft. to 8 ft., 40c each; \$3.50 per 10.

**CATALPA SPECIOSA.**—Fine, rapid grower. Valuable also for timber, posts and cross-ties. Popular in semi-arid regions. 5 to 6 ft., 30c each; \$2.50 per 10; 6 to 8 ft., 40c each; \$3.50 per 10.

**ELM.—American White.**—Well known, beautiful shade and park tree. 5 to 6 ft., 35c each; \$3.00 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

**LINDEN—American.**—Known also as Basswood or Whitewood. A fine spreading native tree with large leaves and fragrant flowers. 5 to 6 ft., 60c each; \$5.00 per 10; 6 to 8 ft., 75c each; \$6.50 per 10.

**LOCUST—Black.**—Make rapid growth; valuable post timber. 5 to 6 ft., 30c each; \$.50 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

**LOCUST—Honey.**—Handsome, well known native tree. 5 to 6 ft., 50c each; \$4.50 per 10; 6 to 8 ft., 75c each; \$6.50 per 10.

**MAPLE—Soft or Silver.**—Valuable for producing quick shade. 5 to 6 ft., 30c each; \$2.50 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

**MAPLE—Hard or Sugar.**—Slow grower but very hardy, valuable and beautiful. 5 to 6 ft., 75c each; \$7.00 per 10. 6 to 8 ft., \$1.00 each; \$8.00 per 10.

**SYCAMORE—American.**—Lofty, spreading tree with handsome broad leaves. 5 to 6 ft., 50c each; \$4.50 per 10. 6 to 8 ft., 75c each; \$7.00 per 10.

Five trees of a kind will be sold at the ten rate. Can furnish stock in any size larger than given above. Write for prices.

## LAWN TREES

**BECHTEL'S FLOWERING CRAB.**—Medium size tree and large, very double, fragrant flowers. 2 to 3 feet, 75c each. 3 to 4 ft., \$1.00 each.

**CHESTNUT — The American Sweet.**—Well known; valuable for nuts and lumber. 5 to 6 ft., 75c each; \$7.00 per 10. 6 to 8 ft., \$1.00 each; \$8.00 per 10.

**MOUNTAIN ASH.**—A fine, hardy, small tree. Bears red berries. 5 to 6 ft., 50c each; \$4.50 per 10. 6 to 8 ft., 75c each; \$7 per 10.



CUT LEAF WEEPING BIRCH

**MULBERRY—Russian.**—A good shade tree and valuable for the fruit. 5 to 6 ft., 40c each; \$3.00 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

**NORWAY MAPLE.**—Hard wood, fine foliage, with beautiful spreading top. 5 to 6 ft., 75c each; \$6.00 per 10. 6 to 8 ft., \$1.00 each; \$8.00 per 10.

**WEIR'S MAPLE.**—Cut leaved, very hardy and graceful. 5 to 6 ft., 50c each; \$4.50 per 10. 6 to 8 ft., 75c each; \$7.00 per 10.

## WEeping TREES

**WEEPING MOUNTAIN ASH.**—Very hardy and attractive. 1-year heads, 75c each; 2-year heads, \$1.00 each.

**WEEPING CUT LEAF BIRCH.**—Perhaps the most elegant of all lawn trees. Delicate foliage, silvery white bark. Tall and slender but a vigorous grower. Every householder should have one or two specimens. 4 to 5 ft., \$1.00 each; 5 to 6 ft., \$1.25 each; 6 to 8 ft., \$1.50 each.

**TEA'S WEEPING MULBERRY.**—Very distinct and beautiful. Quite hardy. 1-year, each \$1.50.

**WISCONSIN WILLOW.**—An upright grower but with drooping twigs. 5 to 6 ft., 50c each; 6 to 8 ft., 75c each.

## EVERGREENS

Our evergreens are all nice shapes and packed to reach you in good condition.

Variety	Size	Each	Doz.
American Arbor Vitae	12 to 18 in.	\$.30	\$2.50
American Arbor Vitae	18 to 24 in.	.50	4.00
American Arbor Vitae	24 to 36 in.	.75	6.00
Scotch Pine	12 to 18 in.	.40	3.50
Scotch Pine	18 to 24 in.	.50	4.50
Scotch Pine	24 to 36 in.	.75	6.00
Norway Spruce	12 to 18 in.	.40	3.50
Norway Spruce	18 to 24 in.	.60	5.50
Norway Spruce	24 to 48 in.	.85	9.00

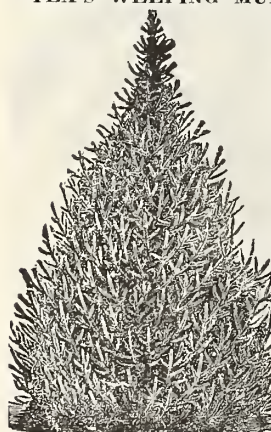
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State of Iowa.

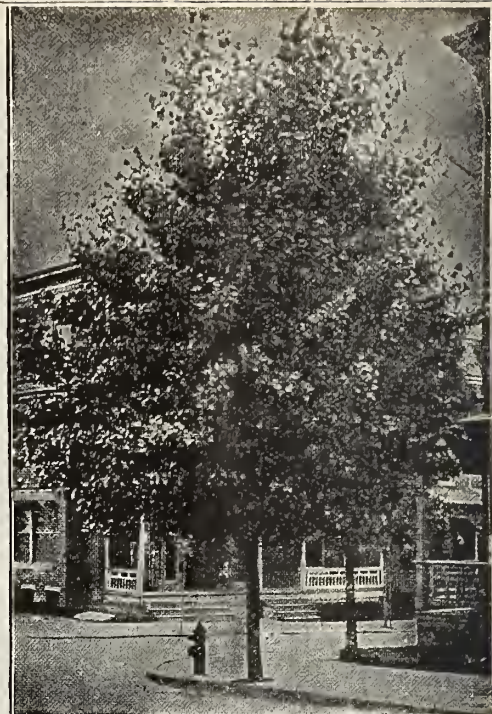
## CERTIFICATE OF NURSERY INSPECTION

Office of State Entomologist, Ames, Iowa.  
This is to certify that in accordance with Chapter 53 of the Acts of the Twenty-seventh General Assembly, as amended by the Thirty-first General Assembly, the nursery stock for sale by the Iowa Seed Company, of Des Moines, Iowa, has been inspected by a duly authorized inspector and has been found apparently free from dangerously injurious insect and plant diseases. This Certificate is invalid after July 1, 1915.

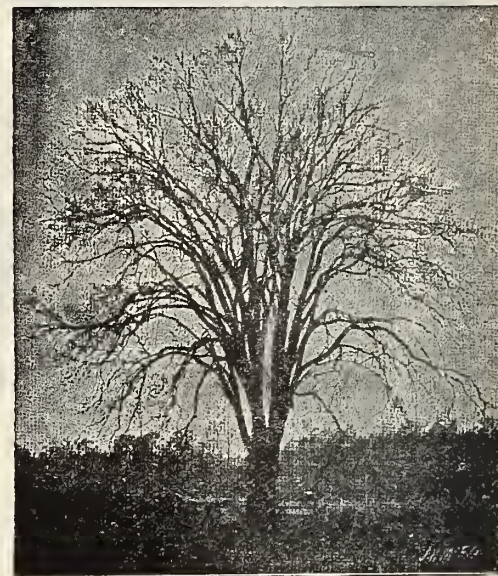
H. E. SUMMERS, State Entomologist.



NORWAY SPRUCE.



HARD OR SUGAR MAPLE.



AMERICAN WHITE ELM.

## FOREST TREE SEEDLINGS

Five hundred will be sold at thousand rates.

Variety	Size	100	1000
Catalpa Speciosa	12 to 18 in.	\$1.00	\$9.00
"	18 to 24 in.	1.40	12.00
Black Locust	12 to 18 in.	1.00	6.00
"	18 to 24 in.	1.20	7.00
Soft Maple	12 to 18 in.	1.00	6.00
"	18 to 24 in.	1.40	8.00
Russian Mulberry	12 to 18 in.	1.25	7.00
"	18 to 24 in.	1.60	9.00
Osage Orange, No. 1		.60	4.00
" No. 2		.40	2.50



# GRAPES

Our grape vines are No. 1 one-year vines, which experience has shown to be the very best size for transplanting. The best and most robust vines are marketed by nurserymen generally at one year old, while the culls are grown another season and sold as two-year-olds. Write for prices on large lots.

**AGAWAM.**—Berries are very large, bright red, with thick skin; very vigorous grower. Fruit of good quality. Each 15c, doz. \$1.00, per 100 \$4.50.

**BRIGHTON.**—Of the best quality. Bunch and berry large, of bright red color, and it is quite productive. Each 15c, doz. \$1.00, per 100 \$5.00.

**CAMPBELL'S EARLY.**—Strong grower, large, healthy foliage. Very productive; keeping and shipping qualities unequaled by any early grape. Ripens with Moore's Early. Bunch and berry large, glossy black with blue bloom. Sweet and juicy; clusters are usually shouldered. Each 25c, per doz. \$2.50; per 100 \$15.00.

**CONCORD.**—The well known standard black variety. Succeeds well everywhere. Each 10c, doz. \$1.00, per 100 \$4.00.

**MOORE'S EARLY.**—Bunch large, berry very large and round, vines exceedingly hardy. A very desirable early market black variety, exceedingly hardy. Very popular with Des Moines growers. Each 15c, doz. \$1.50. By exp., 100 \$6.00.

**NIAGARA.**—This is a leading white variety, very productive and hardy. Bunch and berries large green or white, changing to pale yellow when fully ripe; the skin thin and tough. Quality extra fine. Each 15c, doz. \$1.20, per 100 \$5.00.

**WORDEN.**—A large grape of the Concord type, much earlier, larger and of better quality; hardy and more productive. Each 15c, doz. \$1.25, per 100 \$5.00.

**WOODRUFF.**—Of ironclad hardiness, a rank grower and very healthy. Fruit large and very attractive. Usually shouldered. Sweet and of fair quality. Ripens soon after the Concord and stands at head of the list of red sorts for a market variety. Each 20c, doz. \$2.00, per 100 \$8.00.

**WYOMING RED.**—Claimed to be as choice in quality as the Delaware. Fruit is larger and brighter red than that sort. A fine variety. Each 15c, dozen \$1.50, per 100 \$6.00.

## GRAPE VINE BARGAIN

Eight Strong No. 1 Grape Vines, Postpaid, 64c

We do not offer in this bargain any variety that has not proven suitable for planting here, and none but what will produce good crops every year.

6 Concord, black; 2 Niagara, white; 2 Agawam, red.

Just enough for the ordinary family needs, and variety sufficient to satisfy the different tastes. Can be planted in the back yard on a city lot and furnish all the grapes a family can use.

## CURRENTS

**POMONA.**—The most productive and vigorous red currants ever introduced; ripens early, but remains on the bush longer than any other; remarkably fine quality. Each 15c, doz. \$1.00.

**FAY'S PROLIFIC.**—One of the most prolific, of excellent quality. We heartily recommend it. Each 15c, doz. \$1.00.

**WHITE GRAPE.**—A standard variety. The fruits are light colored, mild and fine flavored. Each 15c, doz. \$1.00.

POMONA CURRENT

## RASPBERRIES

Our varieties are all tip grown plants. We do not sell sucker plants, nor varieties which propagate from suckers.

**ST. REGIS.**—Everbearing red variety. Spring set plants bear the first year, continuing to fruit until late in fall, late crop coming on the tips of new canes. Hardy and the best everbearing red raspberry. Dozen 75c; 100 \$3.50.

**NEW CARDINAL.**—This wonderful berry surprises all by its great growth, extreme hardiness, exceeding productiveness and the unusual richness of its pure flavored, large purple berries. Leading horticulturists everywhere have pronounced it one of the fruit wonders of the century and the most profitable of all sorts. Dozen 75c, 100 \$3.00.

**CUMBERLAND.**—One of the best of blackcap variety. It is of very large size, good quality, firm and handsome, and an excellent shipper. Plants vigorous and hardy, productive and free from disease. Dozen 75c, 100 for \$2.50.

**KANSAS.**—Ripens about one week earlier than Gregg. Fruit large and firm. Valuable as a home or market variety. Doz. 75c, per 100 \$2.50.

**GREGG.**—Hardy and excellent. Has been leading blackcap sort for many years. Doz. 50c, 100 \$2.50.

**COLUMBIA.**—This is a leading purple-red variety. Fruit is rich and sprightly in flavor, and is superior for canning, jam or preserving. Grows very large, strong and vigorous and yields immensely. Doz. 50c, per 100 \$2.50.



MOORE'S EARLY

## GOOSEBERRIES

**CHAMPION.**—A new variety originating in Minnesota. Hardy, free from mildew, very productive, large size, and recommended by our growers as the best variety listed. Each 20, doz. \$2.00.

**JOSELYN.**—Of superior merit. Very large, hardy, productive and free from mildew. Regarded as the best of recent introduction. Each 20c, per doz. \$2.00.

**PEARL.**—One of the most prolific; very hardy, entirely free from mildew. Superior in size and productiveness to Downing. Each 20c, doz. \$2.00.

**INDUSTRY.**—The best English sort yet introduced in this country. Berries of immense size, 1 to 2 inches long. Each 25c, doz. \$2.50.

**HOUGHTON.**—Pale red, good quality, productive. Each 20c, doz. \$1.50.

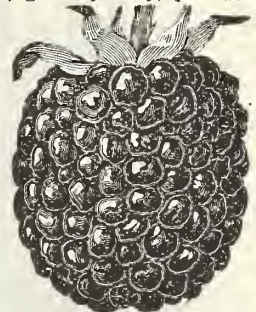
**DOWNING.**—Large, pale green. Ea. 20c, doz. \$1.50.

## BLACKBERRIES

**SNYDER.**—Extremely hardy and very productive. The standard sort for the west. No other variety is so prolific or so dependable in the corn belt, or so desirable for shipping. Doz. 50c, 100 \$2.50.

**ANCIENT BRITON.**—This is regarded as one of the hardest blackberries and especially adapted to Iowa, Wisconsin and Minnesota. Doz. 50c, 100 \$3.00.

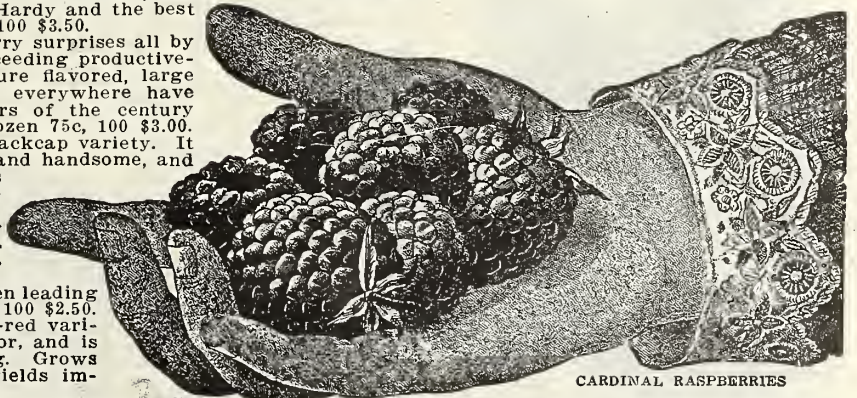
**BLOWERS.**—A sturdy grower and quite hardy. Fruits large, melting and splendid quality. Doz. 50c, 100 \$3.00.



SNYDER BLACKBERRY

## DEWBERRIES

**LUCRETIA.**—The best dewberry for this section. Berries much larger and better quality than blackberries. Each 15c, doz. 75c, 100 \$3.00.



CARDINAL RASPBERRIES

A GOOD SUPPLY OF DIFFERENT KINDS OF SMALL FRUITS IN THE FAMILY GARDEN ADDS GREATLY TO THE JOY OF LIVING.



## STRAWBERRIES

Quick service is necessary in handling strawberry plants, and special packing is required. For these reasons we ship all strawberry plants entirely by themselves. Perfect flowered varieties are marked (s); the imperfect marked (p), must have perfect flowered sorts planted with them or they will not fruit. Ask for price in large lots.

**AROMA (s).**—The best and most profitable late berry. It is very prolific and of most excellent color and quality. Plants strong, vigorous and free from disease. Fruits very large, roundish, conical, and glossy bright red. Per 100 \$1.25, postpaid. By express, per 100, 75c; 500, \$4.00.

**BEDERWOOD (s).**—This is one of the best known varieties for planting with the Warfield or Crescent, as it produces a large amount of pollen. It is of excellent color and a good shipper. Ripens early. Per dozen 30c; per 100, \$1.00, postpaid. By express, per 100, 75c; 500, \$3.00.

**BRANDYWINE (s).**—Large berry, vigorous, strong grower, and makes a large, heavy plant. It is fine for market, being large, firm, and handsome red color. Blooms perfect, making it a good fertilizer for other sorts. Doz., 30c; 100, \$1.25, postpaid. By exp., 100, \$1.00; 500, \$4.00.

**BUBACH (p).**—Its large, uniform size, fine form and color, unsurpassed productiveness and great vigor combine to make it a leading sort. Rather late in maturing. Per doz., 30c; 100, \$1.25. By express, 100 for \$1.00; 500, \$4.00.

**CLYDE (s).**—One of the most popular varieties in the West. It is of vigorous growth and very productive. Berries deep scarlet and moderately firm. Decidedly the best early sort. Per doz., 30c; 100, \$1.25, postpaid. By express, 100, \$1.00; 500 for \$4.00.

**CRESCENT (p).**—One of the old standard varieties, will produce a large crop where other sorts would fail, as it will stand an unusual amount of neglect. The berry is of medium size and good quality. Per doz., 25c; per 100, \$1.00, postpaid. By express, per 100, 75c; 500 for \$3.00.

**KLONDYKE.**—If you want a good berry that will bring top price, and ship anywhere, plant this sort. Plants strong, vigorous and productive. Fruits are large, firm and well flavored. Per doz., 20c per 100 \$1.00, postpaid. By express, 100, 75c; 500 for \$3.00.

**NICK OHMER (s).**—Very large in size, uniform in shape; dark, glossy red; firm and excellent flavor. Season rather late. Doz., 40c; 100, \$1.50, postpaid. By express, per 100, \$1.25; 500 for \$5.00.

**SENATOR DUNLAP (s).**—Medium sized sort; is very hardy, productive, a vigorous grower. Bears until quite late. Unsurpassed in quality; claimed best all around variety. Doz. 40c; 100, \$1.25, postpaid. By express, 100, \$1.00; 500 for \$4.00.

**WARFIELD (p).**—One of the best known market berries, medium size, excellent quality, and a good shipper. One of the best early sorts and maintains its size well throughout the season. Doz. 25c; 100 \$1.00, postpaid. By express, 100, 75c; 500 for \$3.00.

### OUR FAMOUS STRAWBERRY BARGAIN

For several years we have featured this bargain collection with wonderful satisfaction to our customers, thousands of whom have taken advantage of our knowledge of varieties and special facilities to supply choice plants.

**25 Each Sen. Dunlap, Bederwood, Warfield, Aroma,**

Four varieties, furnishing both male and female blossoms suitable to grow together and give a succession of fruit all season. 100 plants in all (just enough for a home SENATOR bed), well rooted, vigorous and young plants that have DUNLAP never fruited. Postpaid for \$1.00.

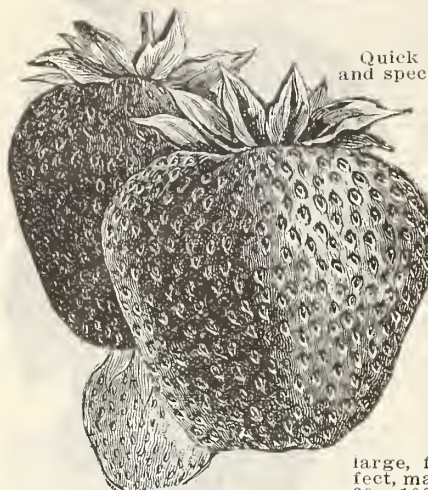
## FALL BEARING STRAWBERRIES

These are a new race of strawberries that produce ripe fruit in October and November, generally lasting until hard, killing frosts. They have a tendency to fruit in June, but if permitted to bear at this time the fall crop is curtailed. Pinch off the blooms that set up to July 1st and you will have fine fruit for fall use. Fruit the first year from spring set plants, and if you want strawberries next fall plant the everbearing sorts now and get a crop up to Thanksgiving. Produced remarkably well in 1915 because of the favorable season. When first introduced, fruits were small, production was limited and they were not favorably received. After several years' breeding, however, they have been greatly improved and we are now ready to recommend the varieties which we list. Constant improvement is being made in the fall bearing varieties. No doubt they will soon be as general as the spring sorts.

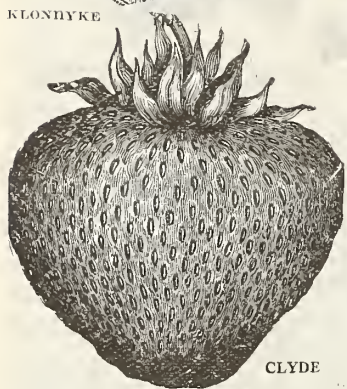
**SUPERB.**—This variety is most widely known and one of the best. Shape is somewhat uneven, like the Nick Ohmer shown above. Berry is large, deep crimson in color, firm and solid, and of excellent quality. Very prolific and a strong grower.

**PROGRESSIVE.**—A cross of Senator Dunlap on the Pan American, which was the first of the fall bearing varieties. It retains the habit of fall fruiting, while the berries resemble in form and color the Dunlap. The plant is very vigorous and productive, and it holds first place among fall bearing sorts as the Dunlap does among the common kinds.

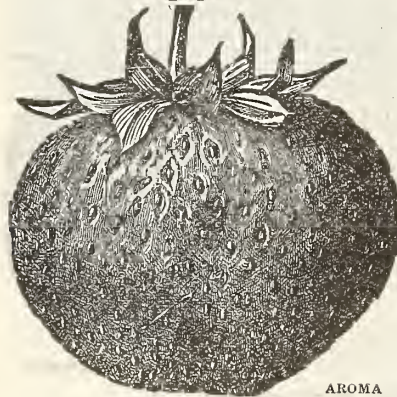
**PRICES:** Either Superb, Progressive, or both: Per dozen, 50c; per 100, \$3.00; 200, \$5.00, postpaid. By express, not prepaid, 300 for \$7.00; 1,000 for \$20.00.



KLONDYKE



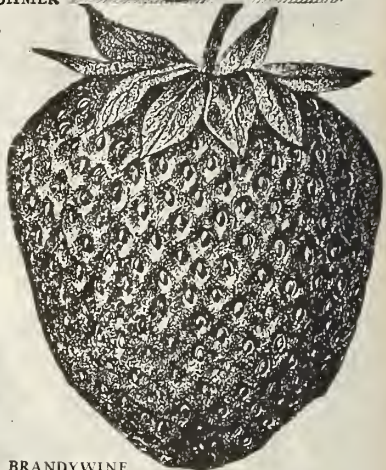
CLYDE



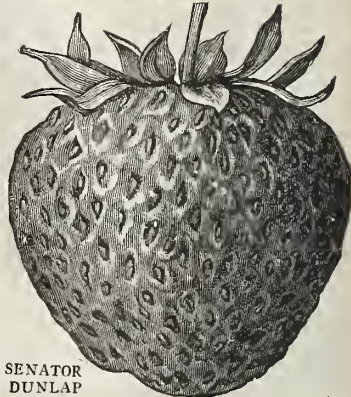
AROMA



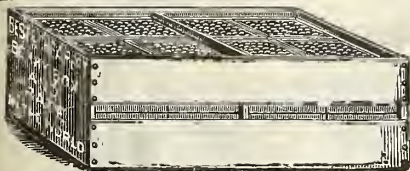
NICK OHMER



BRANDYWINE







## FRUIT PACKAGES

Being the oldest as well as the largest dealer in berry boxes and other fruit packages in the west, we are prepared to furnish you the best stock made, at low prices. We handle a great many carloads each year, and from our long experience of more than a quarter of a century we are enabled to select superior stock and give instructions for cutting so that it will suit our trade. It pays to have bright, smoothly cut stock which will make the fruit look nicer and sell better. Prices named here are subject to change during season. All goods

in this department go by freight or express at customer's expense for carriage. If wanted by mail figure from Parcel Post Table on page 2, from weights given for each item, and send postage necessary.

**Terms Cash With Order.**—The profit is so small on these goods that we cannot afford to make C. O. D. shipments. To meet the requirements of the Iowa Food Law, we offer dry measure berry boxes and crates to hold them.

**BERRY BOXES.**—Made of the best white wood (poplar), heart stock, cut smoothly, and perfect shape, size  $4\frac{3}{4} \times 4\frac{3}{4} \times 3\frac{3}{4}$ , to hold a dry measure quart. The bottom is set up for ventilation. Usually put up in bundles of 500 boxes complete for shipment and all ready for putting together, which can be done very rapidly. 500 at the 1,000 rate; broken bundles at the 100 rate. Price per 100 45c; 1,000 \$3.50; 10,000 or more at \$3.25. Weight, 10 lbs. per 100.

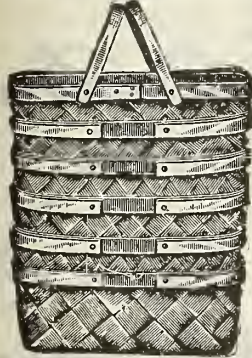
**ANNEALED TACKS.**—Made of the very best Swedes iron and of proper length so that they go through either two or three thicknesses of the material and clinch to hold securely. A pound will make 1,000 boxes. Lb. 30c; 4 lbs. \$1.00.

**CRATES.**—Made of thoroughly seasoned stock, well ventilated at sides and bottom, but with a tight cover to protect from dust. We always ship in the flat or "knock down." They make a neat, strong and cheap package holding 16 to 24 quart boxes. Price: 16-qt. crates per 10 \$1.20, per 100 \$9.50; 24-qt. crates per 10 \$1.25, per 100 \$11.00. Weight, 16-qt. each 4 lbs.; 24-qt., each 5 lbs.

**CRATE NAILS.**—Far superior to common nails, as they hold much better. Twelve pounds (makes 100 crates) \$1.00.

### DIAMOND MARKET BASKET.

—As will be noticed, we are now having these baskets made with two handles which close down over the edge of the basket. The baskets nested in this way can be shipped at about half the cost of the old-style, over-handle baskets, and they are also quite convenient for shipping the fruit in. They are used quite largely for marketing grapes, plums, cherries, etc., as well as for some kinds of vegetables. Per doz. 50c; 10 doz. \$4.50. Weight 10 lbs. per dozen.



### CLIMAX GRAPE BASKET.

—The best package for shipping grapes, cherries, plums, etc. It is the standard 7-lb. size, making a strong but light package. Wt. 1 lb. each. Made of the best material. They are nested for shipment with the covers and bent handles in separate packages. Price for 10 50c; 25 90c; 100 for \$3.50; 1,000 for \$32.50.

**SMALL CLIMAX GRAPE BASKET.**—For fancy grapes, etc. Holds about 4 lbs. 50c for 10; 90c for 25; \$3.50 per 100.

**HALF BUSHEL BASKET.**—The best all-around basket for farmers, fruit growers and grocers that we know of. Strong and well made, smooth inside, so that it does not bruise or scratch the fruit, particularly adapted to picking fruit and vegetables. The swinging bale makes it easily handled. Price 20c each; \$2.00 per doz. Wt. 2 lbs. each.

**NO. 1—ONE-BUSHEL BASKET.**—The ideal basket for general use. Standard elm staves with elm hoops and handles; also inside and outside bottom hoops. Each 25c; doz. \$2.75.

**IRON MEASURES.**—Made of heavy galvanized iron with side handles. Peck size each 50c;  $\frac{1}{2}$  bushel each 75c; 1 bushel each \$1.00. Weight, pk. size, 2 lbs.;  $\frac{1}{2}$  bu. size,  $3\frac{1}{2}$  lbs.; bu. size,  $5\frac{1}{2}$  lbs. each.

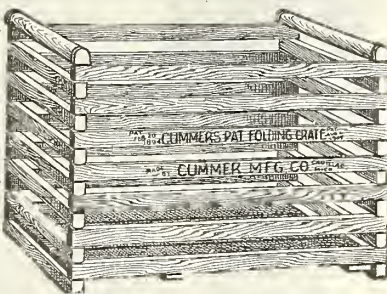


### FOLDING ONE-BUSHEL CRATE.

—Light, strong and durable. Slats are all run with round corners so that contents are not bruised or cut. Size  $11\frac{1}{2}$  in. in width,  $20\frac{1}{2}$  in. long,  $13\frac{1}{2}$  in. high outside. No. 1 each 30c; per dozen \$3.00.

### WIRE STAPLING MACHINE—Standard

—For making berry boxes. The latest improved, operated by foot power, and can



be easily operated by anyone. Makes boxes very rapidly. Made in two sizes and can be shipped direct from the factory in Michigan at the following low prices: No. 1 (standard size) each \$25.00; No. 2 (somewhat smaller) each \$23.00.

**STAPLING WIRE.**—To use with the above machine for making boxes. Per lb. 15c; per coil of 12 lbs. \$1.10, 5 coils or more at \$1.00 per coil.

**MAGNETIC TACK HAMMER.**—Picks up the tacks and saves much of the labor. Each 15c. Mailing weight 1 lb.

## NURSERYMEN'S SUPPLIES

**GRAFTING WAX.**—A special preparation for application where trees have been pruned; for preventing the loss of sap where wounds are made in the bark or from broken limbs, and to hold grafts together while parts are growing together. Price,  $\frac{1}{2}$  lb. pkg. 15c; mailing weight 1 lb.

**TREE PRUNER.**—Strong wooden handles 24 inches long; knife 3 inches long. Has cutting knife 2 inches long; powerful and effective. The best pruner where branches are within reach. Each \$1.50. Mailing weight 4 lbs.

**WATER'S TREE PRUNER.**—The standard make; with 6-ft. pole 85c; 8-ft. pole \$1.00; 10-ft. pole \$1.20. Can't mail.

**IMPROVED HAND PRUNING SHEARS.**—The best hand shears on the market. Made specially for pruning berry or rose bushes, grape vines, etc. Made of best steel, 8 inches long, spiral spring. Price \$1.25. Mailing wt. 1 lb. ea.

### CONNECTICUT PRUNING SHEARS.

A good tool for most work. Steel blades, flat spring, and malleable handles. Price 50c. Mailing weight 1 lb.

**KELLEY'S PATENT PRUNING SHEAR.**—A pruning shear which cuts the twig and holds it. A splendid shear for cutting thorny plants, roses or flowers of any kind. Excellent for picking grapes. Each 75 cents. Mailing weight 1 lb.

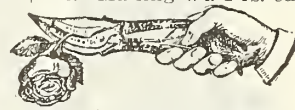
**TREE PROTECTORS.**—Made of veneer like berry boxes, dipped in creosote to drive away vermin and make them impervious to weather. Used by simply bending around the tree. Effective against rabbits, ground squirrels, mice and vermin. Per 100 \$1.00; 1,000 for \$7.50. Wt. 8 lbs. per 100.

**TREE LABELS.**— $3\frac{1}{2}$ -inch, plain, copper wire. Per 100 25c; per 1,000 \$1.25. Not wired, per 100 20c; per 1,000 \$1.00. Mailing weight 4 lbs. per 1,000.

**POT LABELS.**—Painted wood labels, 4-in. per 100 20c, per 1,000 \$1.00; 6-in. per 100 25c, 1,000 \$1.50; 10-in. per 100 50c, per 1,000 \$3.00. Mailing wt., 4 in. 4 lbs.; 6-in. 6 lbs.; 10-in. 10 lbs. per 1,000.

**SPHAGNUM MOSS.**—For packing plants and soft nursery stock. Write for price in quantity. Large wired bale \$1.25; burlap covered bale \$2.00.

**CANE PLANT STAKES.**—Per 100 \$1.25. Not mailable.



KELLEY'S PRUNING SHEARS.

## RAFFIA FOR BASKET WORK

Making Indian Baskets is now attracting a great deal of attention, and the work is taught in public schools, art classes, etc. It is a very interesting and fascinating pastime, is easily learned and many ornamental pieces are made. We furnish the materials in large quantities to schools, as well as to private parties. Our stock is unsurpassed.

**NATURAL RAFFIA.**—Bunch (about 3 oz.) 15c; lb. 50c; 5 lbs. \$2.25. **COLORADO RAFFIA.**—In many handsome colors, such as light and dark red, pink, three shades of green, light and navy blue, light and dark brown, orange, yellow, black, purple, etc. Bunch (about 2 oz.) 10c; lb. \$1. Mixed colors same price. Bleached white, bunch 15c, lb. \$1.25.

**PATENT REEDS.**—Made from paper, sample free on request.—No. 1— $\frac{1}{2}$  to the inch; No. 2— $\frac{3}{4}$  to the inch; No. 4— $\frac{1}{2}$  to the inch; No. 5— $\frac{3}{4}$  to the inch; No. 6— $\frac{1}{2}$  to the inch. Any size per lb. 55c.

**Postage.**—If to be sent by mail, 3c per bunch, and for lbs. at rates shown by table on page 2 for postage on the above Raffia and Reeds.

**RAFFIA NEEDLES.**—12c per package, postpaid.

**HOW TO DO IT.**—Book on Raffia weaving and basket making; 25c.

ALL KINDS OF SPRAYING APPARATUS FOR FRUIT GROWERS ON THE NEXT PAGE. YOU SHOULD NOT FAIL TO USE THEM.



# WINDOW GARDEN SUPPLIES

All goods in this department are sent by express or freight, customer paying charges, unless otherwise noted. Note mailing weight and postage required on items that may go by parcel post.

**WIRE PLANT STANDS.**—We carry a larger stock than any firm in the west, and in place of common iron frames we have them manufactured with steel frames, and they are far stronger, handsomer and lighter than any yet offered. They are well braced in every direction, with good strong casters, and will easily support all the plants that can be placed on the shelves. Nicely finished with green paint and gold bronze. Will last twenty years with proper usage. Weigh only 15 to 40 pounds each. Notice reduced prices.

**NO. 3.**—Similar in style to No. 10, but much larger. Height of stand and arch about 6 feet, width 4 feet, depth 31 inches. Has four legs. List price \$8.00. Our net price only \$6.50.

**NO. 4.**—Like above, but without arch or hanging basket. List, \$6.50; net, \$5.00.

**NO. 6.**—One of our most popular styles, quite ornamental, and for a few plants one of the most desirable. A vining plant at each end of shelf and trained over arch adds to its beauty. Height 6 ft., shelves 36 in. long. List \$5.50; our price \$4.50.

**NO. 7.**—Exactly like No. 6, except that it has no arch or basket. List price \$4.00; our price \$3.40.

**NO. 8.**—Holds a large number of plants and all get equal light. Size 42 inches high, 26 inches deep; has three shelves each 36 inches long; will hold about 30 pots. List price \$6.50; our price only \$5.00.

**NO. 9.**—Same as No. 8, arch and basket added. List \$8.00; our price \$6.50.

**NO. 10.**—A very popular stand, well shown by the engraving, but the arch is Gothic pattern, same shape as No. 3. Holds 20 to 30 plants. Height 5 ft. 10 in.; width 40 in., and 26 in. deep. We sell more of these than any other pattern and are thus enabled to make a specially low price. List price \$7.00; our price, including arch and hanging basket, only \$5.00.

**NO. 11.**—Same as above, without arch or basket. List \$5.50; our price \$4.25.

**WIRE WINDOW SHELF.**—These can be fastened to window frames, either inside or outside. They are strong and attractive, 36 in. long, about 7 in. wide. The border is not as high as shown in the engraving. Each, by express, \$1.00. If to go by mail add postage for mailing, weight 4 lbs.

**IDEAL VACUUM FLOWER BOX.**—A metal self-watering box 6½ inches deep, 8¼ inches wide, in lengths of 24, 30, 36 and 48 inches. Splendid for window boxes, either indoors or out, and are also for summer porch boxes. Price: 24-inch \$1.00; 30-inch \$1.25; 36-inch, \$1.50; 48-inch \$2.00. Cannot go by mail. Brackets for mounting on window sill, per pair, 52c; for hanging below the sill, per pair, 65c; for mounting on porch rail, per pair, 26c.

**WIRE BRACKET.**—This new pattern is a very cheap, handsome bracket, made of tinned wire. Is easily put up, adjustable, can be instantly removed; is simple, practical and durable. Price by express, 4-in. each 10c, doz. \$1.00; 5-in. each 12c, doz. \$1.25; 6-in. each 15c, doz. \$1.50. If to go by mail, add postage for mailing, weight each 1 lb., dozen 4 lbs.

**SULPHO-TOBACCO SOAP.**—For a cheap, effective, clean and harmless insecticide this is unexcelled. Quickly exterminates all insect life on plants and flowers. Unsurpassed for rose bushes. It rids the house of cockroaches and is a superior wash for dogs and all animals. Prevents poultry lice. Three-ounce cake, sufficient for 4 gals. solution, by mail, postpaid, 28c; by express 20c. Six eight-ounce cakes, by express, \$1.00. If to go by mail add postage for mailing, weight of six cakes 4 lbs.

**FISH OIL SOAP.**—(Usually called Whale Oil Soap.)

—An excellent preparation for plants infested by vermin. Also used against fungus diseases and will keep trunks of trees free from borers and other bark destroyers. Lb., by express, 25c. If to go by mail, add postage for mailing, weight 2 lbs.

**FLOWER POTS.**—The following prices per dozen are for pots and saucers: 4-in. 60c, 5-in. 75c, 6-in. \$1.00; 7-in. \$1.50; 8-in. \$2.40; 9-in. \$3.00. We make no charge for packing or delivering at depot here. Orders for these must amount to at least \$1.00. Cannot go by mail.

**PAPER FLOWER POTS.**—Made of heavy waterproof paper. Fine for growing vegetable plants, pansies, asters, etc. By using these you do not have to disturb the roots of the plants when setting them out in the open. 2½-in. by expr., doz. 10c, 100 for 40c; 3-in., by expr., doz. 15c, 100 for 60c; 4-in., by expr., doz. 20c, 100 for 90c. If to go by mail add postage for mailing, weight per dozen 1 lb., per 100 3 lbs.

**TYRIAN PLANT SPRINKLER.**—Fine for house plants. You can, without injuring the plants or soaking the earth, quickly and very effectively sprinkle them. Will keep foliage fresh and healthy and free from insects of all kinds. The bent neck enables you to spray from the under sides of the leaves, which are hiding places for insects. It holds about one-half pint. Each 65c, postpaid.

**SCOLLAY SPRINKLERS.**—Made of pliable rubber with hard rubber cap. Large size holds about one pt., small size about one-third pt. Indispensable for floral work. Excellent for washing the foliage of house plants, and sprinkling clothes. Large, each \$1.10, small 65c, postpaid.

**BOWKER'S FOOD FOR FLOWERS.**—A fertilizer made especially for plants; clean, free from offensive odor and soluble in water, producing healthy plants and abundant blossoms to which it imparts a brilliant color. Box sufficient for twenty plants one year.

By express, large pkg. 25c; small 15c. If to go by mail add postage for mailing; weight, large package, 2 lbs., small package, 1 lb.

**HANGING BASKET CHAINS.**—Plain three-strand steel chains suitable for any kind or size hanging basket. By mail, each 14c; if sent by express with other goods, 10c ea.



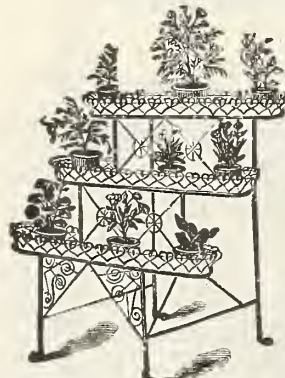
No. 10



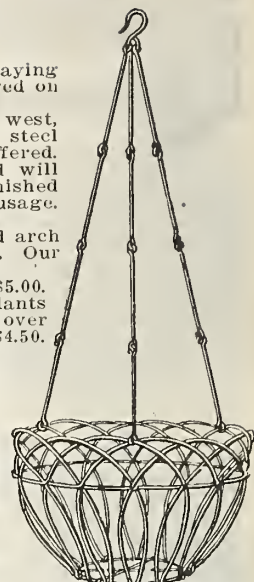
No. 6



No. 3



No. 8



WIRE HANGING BASKET



WIRE BRACKET



WIRE WINDOW SHELF



SCOLLAY SPRINKLER



TYRIAN SPRINKLER



**STERLINGWORTH PLANT TABLETS.**—A highly concentrated food for plants, put up in small tablets to be dissolved in water and used as needed. No. 1 pkg. (30 tablets) each 10c; No. 2 pkg. (100 tablets) each 25c; No. 3 pkg. (250 tablets) each 50c; all postpaid at prices named.

**WIRE HANGING BASKETS.**—Are made of wire; lined with moss and filled with dirt they are very attractive. Light, strong and durable, and have chain attached as shown in illustration above. By express, 8-in., each 20c; 10-in., each 25c; 12-in., each 30c. If to go by mail, add postage for mailing weight 1 lb.

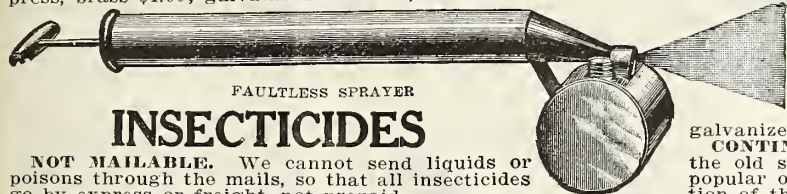






DAISY SPRAYING PUMP

**IMPROVED FAULTLESS, or "Misty" Sprayer.**—Shaped like the standard Faultless, but the spray nozzle protrudes through the tank, making it stronger. Mailing weight 2 lbs. By express, brass \$1.00; galvanized iron 75c; tin 50c.



FAULTLESS SPRAYER

## INSECTICIDES

**NOT MAILABLE.** We cannot send liquids or poisons through the mails, so that all insecticides go by express or freight, not prepaid.

**PARIS GREEN.**—For liquid spraying. Use one pound of paris green to 100 or 200 gallons of water, generally strong enough if one-half pound in a barrel (50-gallon) of water, and allowed to stand twenty-four hours before using. Care must be taken in using all poisonous liquids that animals are not allowed to get at them. In powder form use one pound of Paris green and 20 to 50 lbs. of flour; mix thoroughly, apply evenly, preferably when dew is on plants.  $\frac{1}{4}$  lb. 10c, lb. 35c, 5 lbs. \$1.50.

**ARSENATE OF LEAD.**—Our stock of this is strictly fresh, and will be found the best spraying preparation in the list for destruction of insect pests. Use 3 lbs. to 50 gallons of water, or, if preferred, use 50 gallons of Bordeaux mixture instead of water for dilution. In paste form, per lb. 25c; 5 lbs. \$1.00; 25 lbs. \$4.00. In dry powder form, per lb. 50c; 5 lbs. \$2.00.

**BORDEAUX MIXTURE.**—Bordeaux Mixture is the standard spraying preparation and this is in form of a condensed liquid. You simply add water in proportion of 25 to 1 and it is ready for use. Per lb. 25c, 5 lbs. 80c.

**FUNGO-BORDEAUX.**—Powdered form of Bordeaux Mixture. Per lb. 30c; 5 lbs. \$1.25.

**LIME-SULPHUR SOLUTION.**—A liquid for general spraying, both an insecticide and a remedy for disease. Use with Bordeaux for winter spraying; with Arsenate of Lead for first spring application, and alone for summer spray. (Two pounds of Bordeaux or Arsenate and one gallon of Lime-Sulphur to 50 gallons of water.) Per qt. 25c, half gallon 45c, gallon 65c.

**NICO-FUME.**—A condensed preparation of tobacco almost pure nicotine. Best spraying and fumigating preparation for greenhouse use, since it does not injure plants or blooms and kills aphids, red spider and mealy bugs. Use one ounce in 10 to 15 gallons of water, and it will be even better if a pound of whale oil soap is added. Price, 4-oz. can 75c, 1 lb. \$2.00, 4 lbs. \$7.00.

**BLACK LEAF 40.**—Condensed nicotine, recommended for outdoor uses, as well as for house plants. 1-oz. can 25c.

**HELLEBORE.**—Dust over plants either pure or mixed with flour or plaster. If used pure, exercise care and do not dust it on too freely. If used as a liquid spray, dissolve one ounce in three gallons of water. Price,  $\frac{1}{4}$ -lb. pkg. 15c, 1-lb. pkg. 35c.

**CROW BRAND INSECT POWDER.**—Best grade. Fresh and nice. It does not pay to use cheap, ordinary grades. Splendid for home use to kill cockroaches ants and flies. By express,  $\frac{1}{4}$  lb. 25c, lb. \$1.00.

**FUMIGATING AND DUSTING POWDER.**—Formerly sold under the name of Tobacco Dust. Destroys rose bugs, lice, cut worms, vine bugs, tomato worms, cabbage lice and parasites of all descriptions. Apply when foliage is wet. Also a fertilizer and will not burn or injure plants. By express, lb. 10c, 5 lbs. for 25c, 100 lbs. \$3.50.

**HAMMOND'S SLUG SHOT.**—A combination of potent insecticides and soluble plant food. It destroys all insects injurious to shrubs, trees, vines, potatoes, melons, cabbage, currants, vegetables and fruits. Though poisonous to insects, it does not injure foliage. 1 lb. 10c, 5 lbs. 35c, 10 lbs. 65c, 100 lbs. for \$5.50.

**BUG DEATH.**—A non-poisonous powder insecticide; it does not injure the foliage of plants but does kill the insects. Used for any kind of plants, specially recommended for potatoes. By exp., lb. 15c, 2 lbs. 35c, 5 lbs. 50c.

## SPRAYERS

Each year proves the importance of spraying fruit trees and plants in order to destroy the insects and secure a good crop of fruit. The largest and most successful fruit growers are the most enthusiastic on spraying. It will pay you to invest in spraying apparatus if you have only one fruit tree. The spraying of apple and plum trees is especially recommended. A circular giving full information mailed free on request. All spray pumps are sent by freight or express, not prepaid, except where noted.

**DAISY SPRAYING PUMP.**—This popular little sprayer is shown by our illustration. We sell hundreds of these which are used for spraying insecticides and whitewash in the poultry house, also for spraying fruit trees and plants. Can be changed to throw a solid stream 20 to 30 feet high and used for washing windows, buggies, etc. By express, not prepaid, \$1.00. If to go by mail add postage for mailing, weight 3 lbs.

**THE AUTO-SPRAY NO. 1.—Compressed Air Sprayer.**—Our choice of compressed air pumps because of strength and simplicity. Will not get out of repair and is kept absolutely clean without difficulty. Diameter 7 inches; height 2 feet; capacity  $3\frac{1}{2}$  gallons; weight empty 7 lbs.; weight loaded 39 lbs.; weight shipping 15 lbs. Illustration shows mechanism. If additional information is wanted, send for circular of the Auto-Spray. Prices: Auto-Spray No. 1B, brass tank with "Auto-Pop," \$7.75. Auto-Spray No. 1D, galvanized tank with "Auto-Pop," \$5.50. Two-foot brass extension rod, postpaid, 50c.

**FAULTLESS INSECT SPRAYER.**—An all-brass hand sprayer. Will not rust. The best hand sprayer for applying liquids and insecticides to poultry houses and live stock. Also fine for spraying grape vines, small trees and shrubbery. If to go by mail, add postage for mailing weight 2 lbs. By express, brass \$1.00, galvanized iron 65c, tin 50c.

**CONTINUOUS FAULTLESS SPRAYER.**—Is made like the old standard Faultless Sprayer which is the most popular of this type. Made in such a way that the action of the plunger forces a continuous fine mist spray and drawing back the plunger does not stop the flow as in the old style sprayer. If to go by mail, add postage for mailing, weight 2 lbs. By express, brass \$1.25, tin 75c.

**FAULTLESS POWDER SPRAYER.**—Is made of tin after the Faultless pattern for use in applying Slug Shot, lime, Paris green mixture of any powder form of insecticides. Light and easily handled. Does the work perfectly and is cheap and effective. If to go by mail add postage for mailing, wt. 2 lbs. By exp., not prepaid, 60c.

**LOWELL BUCKET PUMP.**—A low priced, serviceable bucket pump, made similar in pattern to the Little Giant; not quite so large. The best of the small brass bucket pumps. Price each \$2.75. Mailing weight 5 lbs.

**THE LITTLE GIANT BUCKET SPRAY PUMP.**—Constructed entirely of brass and is provided with a large air chamber and has ball valves, and the pressure is held uniformly so the nozzle throws a continuous spray. Will throw a solid stream 50 to 60 feet; fitted with hose and imperial combination and fine and coarse spray and solid stream nozzle and malleable foot rest. Price by express \$3.50. 8-foot pipe extension, by express, 50c. If to go by mail, mailing weight of pump 7 lbs; of extension pipe 2 lbs.

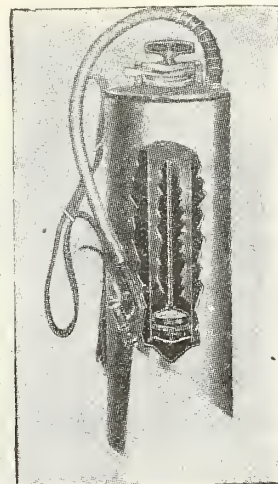
**LEVER BUCKET OR BARREL SPRAY PUMP.**—Similar to the Little Giant but is larger, has lever handle and can be attached to bucket or barrel. Action of the plunger keeps liquid thoroughly mixed by agitation. Made entirely of brass, will not rust. Price by express \$5.25. 8-foot extension pipe (for use among large trees), by express, 50c. Mailing weight of pump 9 lbs! of pipe 2 lbs.

**BELLOWS.**—Used for applying Slug Shot or any kind of insect powder. It is thoroughly well made and works well. Length 23 inches. Holds 6 ounces of powder. Price by express \$1.50, large size \$2.00. Mailing weight 2 lbs.

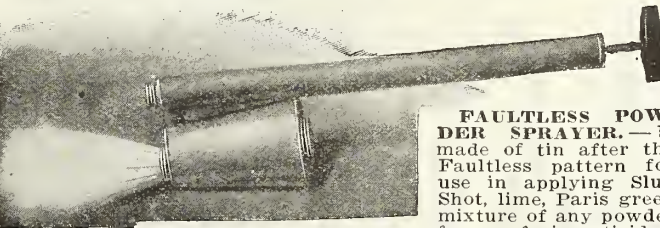
**DUSTERS.**—Buckets with perforated bottom, used for applying slug shot. Each, by express 40c. Mailing weight 1 lb.

**SHAKERS.**—Tube form to apply Bug Death or insecticide powders. Each, by express, 25c. Mailing weight 1 lb.

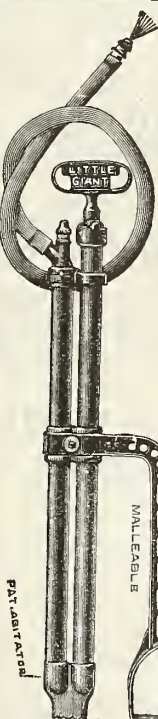
**STAR INSECT POWDER GUN.**—Handy size for house use to blow powder in cracks and crevices. Largely used for killing houseflies. Each 10c, postpaid, 13c.



AUTO SPRAYER



FAULTLESS POWDER SPRAYER



PATENTED

MALLEABLE

IF YOU WANT SUCCESS WITH YOUR FRUITS AND FLOWERS YOU MUST USE A SPRAYER TO DESTROY THE INSECT PESTS.



## LAWN SUPPLIES

Customer to pay cost of transportation on goods in this department. Items which can be mailed are listed with shipping weight and you can add postage, if you want them to come by mail, according to table on page 2.

**PASTIME LAWN MOWER.**—After many years' experience in the lawn mower trade, we have adopted the policy of confining our line to one style and two sizes. The real problem is to get the very best mower possible at a fair price and offer it in sizes most convenient. In our Pastime mowers we have a new style which we are offering as the easiest running mower yet produced. It is ball bearing and has four cutting knives. The wheels are 9 1/4 inches in diameter. Illustration shows general style of the machine. The writer uses one at his own home and recommends it as the best mower we have ever had. Price, 16-inch \$5.40; 18-inch \$6.00.

**GRASS CATCHERS.**—Most successful device for the purpose. Attached to handle only. Does not interfere with action of mower. Illustration shows it adjusted. Can be quickly adjusted at lower end to dump grass. No. 1, for 12 to 16-inch ordinary mowers, each 75c. No. 2, for large mowers, size 16 to 20-inch, each \$1.00. Mailing weight 2 lbs. each.

**IMPROVED GRASS SHEARS.**—Improvement on the ordinary grass or sheep shears. Has long blades and handle is curved to prevent rubbing knuckles on ground when using. Each, by exp., 50c. Mailing wt., 1 lb. each.

PASTIME  
Lawn Mower and  
Grass Catcher

**GRASS HOOKS AND SICKLES.**—Useful for trimming edges of lawns, etc. Mailing weight by parcel post 2 lbs. each. By express, good quality, 35c; best quality, 50c.

**RUBBER HOSE.**—Few realize the great difference there is in the quality of rubber hose. The low grades will not stand ordinary water pressure and are gone in a few days. The grades which we offer are, we believe, superior to any. We warn everyone not to leave their hose in the sun when not in use, as the water left in it gets very warm and will rot the best grade of hose. **The Goodyear.**—The very highest grade of moulded hose. Made to last. 50-ft. coil, including nozzle, \$11.50; without nozzle, \$11.00.

**Oak Brand.**—A splendid quality of 7-ply wrapped hose. Per 50-foot coil, including nozzle, \$7.00; without nozzle, \$6.50.

**Elm Brand.**—A good, serviceable hose. Five-ply wrapped. Best of the cheap grades. 50-foot coil, including nozzle, \$5.50; without nozzle, \$5. **DUDE HOSE REEL.**—It pays to use a reel, as it keeps the hose in better shape and saves labor and annoyance. Price by express, \$1.25.

**BOSTON HOZE NOZZLE.**—The handiest nozzle. By simply turning the front portion you can throw a spray or solid stream or turn off the water. Brass, by express, 50c. Mailing weight 1 lb.

**PLUVIUS WATER SPRINKLER.**—Has three whirling arms that throw the streams to cover a radius of 50 feet. Each, by express, \$1.35. Mailing weight 2 lbs.

**CLIMAX LAWN WEEDER.**—A simple device for removing weeds from lawns. Easily operated. Length 42 inches, enabling operator to stand erect. Push chisel under plant to sever roots. A slight pull on the trigger holds plant. Price, each \$1.00, by express.

**LITTLE GIANT MOLE TRAP.**—Not so large as the Reddick but principle is similar. Strong, durable and will do the work. Easily set. Has a strong spring with great force. Each, by express, 75c. Wt. 2 lbs.

**REDDICK MOLE TRAP.**—If you are bothered with moles you should purchase one of these traps. It is undoubtedly the best trap made and no mole can pass under it and live. Each, by express, 75c. Wt. 2 lbs.

### LAWN FERTILIZERS

**PEERLESS LAWN DRESSING.**—(See p. 59.)—Our own preparation from mineral and animal fertilizer, specially made for lawn use. Price, 10 lbs. 60c; 25 lbs. \$1.00; 100 lbs. \$3.00; 500 lbs. \$14.00.

**PURE BONE MEAL.**—(See p. 59.)—Unadulterated, practically odorless and clean. A splendid fertilizer for general purposes. Use 50 lbs. per 1,000 sq. ft. for top dressing or plowing under. Per 10 lb. pkg. 50c; 50 lbs. \$1.25; 100 lbs. \$2.25; 500 lbs. \$11.00.

**PULVERIZED SHEEP MANURE.**—(See p. 59.)—A natural manure prepared in least offensive form and the best animal produce for lawn or garden work. Use 50 lbs. per 1,000 sq. ft. of surface for top dressing or plowing under. Price, 10 lb. pkg. 50c; 50 lbs. \$1.25; 100 lbs. \$2.25; 500 lbs. \$11.00.

### COMMERCIAL FERTILIZERS

Owing to the European war the price of potash is uncertain, hence we ask you to write for prices on large lots.

**NITRATE OF SODA.**—Imported from the great nitre beds in Chile. It is the most popular fertilizer for stimulating vegetable growth. Use sparingly. Generally applied direct to the hills of growing plants. Price per 10 lbs. 65c, 50 lbs. \$2.25, 100 lbs. \$4.00.

**ACID PHOSPHATE.**—A ground mineral containing about 14 per cent phosphoric acid, a constituent highly important in balanced fertilizer farm crops. Use 200 lbs. per acre broadcast at spring plowing. Per 100 lbs. \$1.50, 500 lbs. \$7.00.

**SULPHATE OF POTASH.**—A concentrated mineral fertilizer with 52 per cent available potash. So very strong that it is only used in small quantity (about 50 lbs. per acre) or as a part of fertilizer mixtures. Best for garden and lawn uses. 10 lbs. 65c.

**PEERLESS GRAIN FERTILIZER.**—A mixture of commercial fertilizers in such proportion as will furnish nitrogen, phosphorus, humus and potash for the growing corn or small grain, and has the additional advantage of destroying root and wire worms in the soil. Especially recommended on fields where corn is grown several years in succession. Price per 100 lbs. \$2.75; 500 lbs. \$12.00; 2,000 lbs. \$34.00.



### DUNHAM LAWN ROLLER

Easy to handle as a lawn mower. Firms the sod and keeps lawn in fine condition. Will give a perfect lawn if used often and makes mowing a pleasure.

**No. 402.**—Diam. 15 in., length 24 in.; made in 3 sections; wt. 200 lbs. List each \$12.50; our net price \$10.

**No. 404.**—Diam. 20 in., length 20 in.; made in 2 sections; wt. 250 lbs. List each \$15.00; our net price \$12.

**No. 407.**—Diam. 20 in., length 24 in.; made in 2 sections; wt. 300 lbs. List each \$18.50; our net price \$15.

**No. 421.**—Same as No. 407, but has tray on top where bricks or other articles may be placed to add weight. List each \$24.75; our net price \$20.00.

**No. 2424.**—The Dunham Water Roller. A steel drum 24 in. in diameter, 24 in. long. Hollow; can be filled with water or sand to add weight. Ball bearing and easy running. Splendid for lawn use. List ea. \$17.00; our net price \$13.50.

### IRON RESERVOIR VASES

(Home Pattern.)—Splendidly useful and ornamental for lawn or cemetery adornment. The reservoir holds water and the plants secure moisture by capillary attraction as needed.

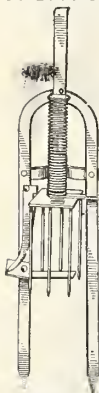
**No. 7.**—Similar to illustration. Diameter of vase 22 inches; height to top of handles 30 1/2 inches; reservoir capacity 7 1/2 gallons. Price each (painted white) \$12.00.

**No. 1.**—Same as No. 7 but higher. Pedestal 15 inches high between base and reservoir, making total height of 45 in. to top of handles; other dimensions same as No. 7. Price each (painted white) \$19.00.



IRON RESERVOIR VASE

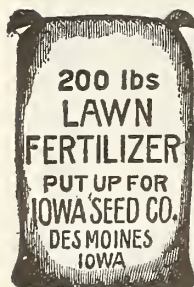
Especially recommended on fields where corn is grown several years in succession. Price per 100 lbs. \$2.75; 500 lbs. \$12.00; 2,000 lbs. \$34.00.



LITTLE  
GIANT  
MOLE  
TRAP



REDDICK MOLE TRAP

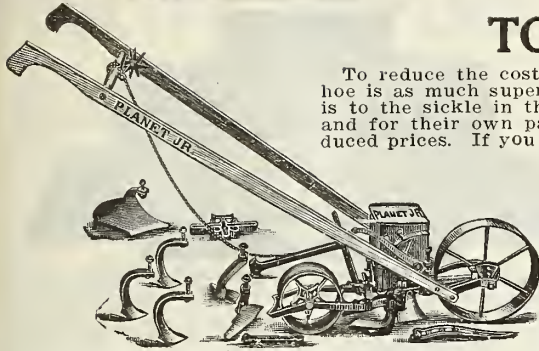




## TOOLS AND IMPLEMENTS

To reduce the cost of gardening it is necessary to have the best tools. A good wheel hoe is as much superior to a common hoe for cultivating a garden as a mowing machine is to the sickle in the hay field. All of the following tools have been thoroughly tested and for their own particular class of work have given splendid satisfaction. Notice reduced prices. If you desire it, we will send illustrated circular describing any of the tools.

### PLANET JR. GARDEN TOOLS



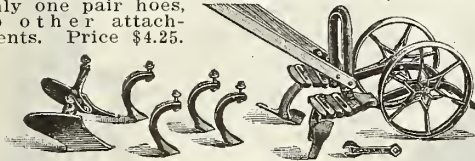
PLANET JR. NO. 4 SEEDER AND CULTIVATOR

**PLANET JR. NO. 1 COMBINED DRILL AND CULTIVATOR.**—A most popular sort. As a hoe it works to and from both sides of the row at once, or between rows. As a cultivator it is admirably adapted to deep mellowing of the soil. Each machine sent out with the tools shown in cut. Price \$9.00. Pair of rakes 50c extra.

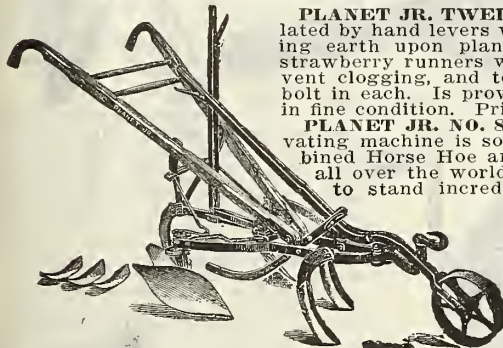
**PLANET JR. NO. 25 COMBINED SEEDER AND CULTIVATOR.**—A large drill and double wheel hoe, intended especially for market gardeners. Sows all kinds of garden seeds in hills or drills, and combines with it a double wheel hoe, cultivator and plow. Illustration below. Price \$13.00.

**PLANET JR. NO. 12 DOUBLE-WHEEL HOE.**—Arch is high enough to enable operator to work both sides of the row at once until plants are 18 inches high, then the wheels can be set close together to work between rows. Does the work of six men with ordinary hand hoes. Attachments, one pair 6-in. hoes, two pair hollow steel cultivator teeth, pair plows, pair leaf lifters. Price \$6.50.

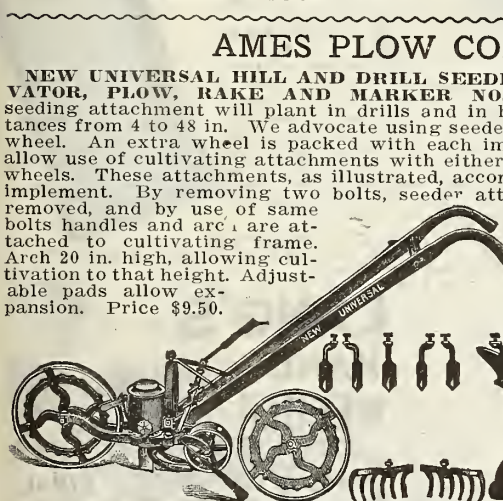
**PLANET JR. NO. 13 DOUBLE-WHEEL HOE.**—Identical with No. 12, described above, but has only one pair hoes, no other attachments. Price \$4.25.



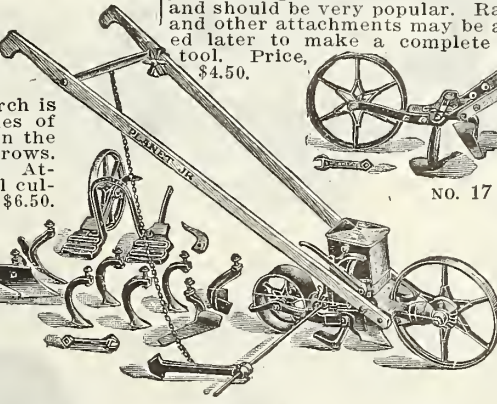
PLANET JR. NO. 12 DOUBLE-WHEEL HOE



PLANET JR. NO. 8 HORSE HOE



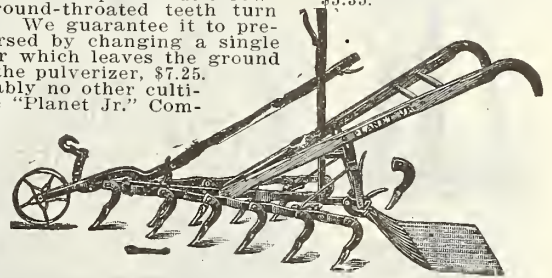
NEW UNIVERSAL HILL AND DRILL SEEDER NO. 22



PLANET JR. NO. 25 HILL AND DRILL SEEDER

**PLANET JR. TWELVE-TOOTH HARROW.**—Depth and width regulated by hand levers while in motion. Cultivates deep without throwing earth upon plants, and its smooth, round-throated teeth turn strawberry runners without injuring them. We guarantee it to prevent clogging, and teeth are quickly reversed by changing a single bolt in each. Is provided with a pulverizer which leaves the ground in fine condition. Price \$8.50; or, without the pulverizer, \$7.25.

**PLANET JR. NO. 8 HORSE HOE.**—Probably no other cultivating machine is so widely known as the "Planet Jr." Combined Horse Hoe and Cultivator. In use all over the world and so well built as to stand incredible strain, yet light and easy to handle. The depth is under perfect control by a new lever wheel, making exact plow work, steadying the machine and relieving operator. The reversible side hoes act as plows or hillers; works shallow and close, without injury to roots, and saves much hard labor. Price \$8.50.



PLANET JR. TWELVE-TOOTH HARROW

**PLANET JR. NO. 4 PLAIN DRILL.**—The drill part only of the above machine. Price \$8.50.

**PLANET JR. NO. 17 SINGLE-WHEEL HOE.**—Has one pair of hoes, three cultivator teeth and a plow. Is just the right assortment of tools for a family garden and should be very popular. Rakes and other attachments may be added later to make a complete tool. Price, \$4.50.



NO. 17 SINGLE-WHEEL HOE

**PLANET JR. NO. 16 SINGLE - WHEEL HOE.**—Has an 11-in. wheel, with broad face; is very light, strong and easy running. It has an adjustable handle and quick-change frame. The tools are a well-shaped plow, a pair of 6-inch shield hoes, and 3 all-steel patent cultivator teeth; set of 2 rakes and a practical leaf guard. Price \$5.35.

### AMES PLOW CO.'S UNIVERSAL GARDEN TOOLS

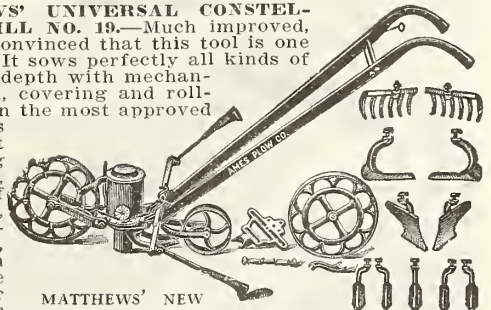
**NEW UNIVERSAL HILL AND DRILL SEEDER CULTIVATOR, PLOW, RAKE AND MARKER NO. 22.**—The seeding attachment will plant in drills and in hills in distances from 4 to 48 in. We advocate using seeders with one wheel. An extra wheel is packed with each implement to allow use of cultivating attachments with either one or two wheels. These attachments, as illustrated, accompany each implement. By removing two bolts, seeder attachment is removed, and by use of same bolts handles and arc are attached to cultivating frame. Arch 20 in. high, allowing cultivation to that height. Adjustable pads allow expansion. Price \$9.50.

**MATTHEWS' UNIVERSAL CONSTELLATION DRILL NO. 19.**—Much improved, and we are convinced that this tool is one of the best. It sows perfectly all kinds of seeds at any depth with mechanical precision, covering and rolling it down in the most approved manner; has a complete set of cultivating attachments, consisting of plows, hoes, rakes and cultivator teeth, as shown in cut. Can be used either with one or two wheels. CONSTELLATION DRILL AND CULTIVATOR NO. 19 and the seeding apparatus is detachable and interchangeable with the cultivator tools. Price only \$8.00.

**MATTHEWS' NEW UNIVERSAL**

**MATTHEWS' NEW UNIVERSAL CONSTELLATION DRILL AND CULTIVATOR NO. 19** and the seeding apparatus is detachable and interchangeable with the cultivator tools. Price only \$8.00.

**MCGEE GARDEN CULTIVATOR.**—A double-wheel hoe with a spring arch which gives the operator control so he can run as close to the row as desired. Is supplied with a pair of hoes and two double-shovel cultivator teeth. Price each \$5.00.

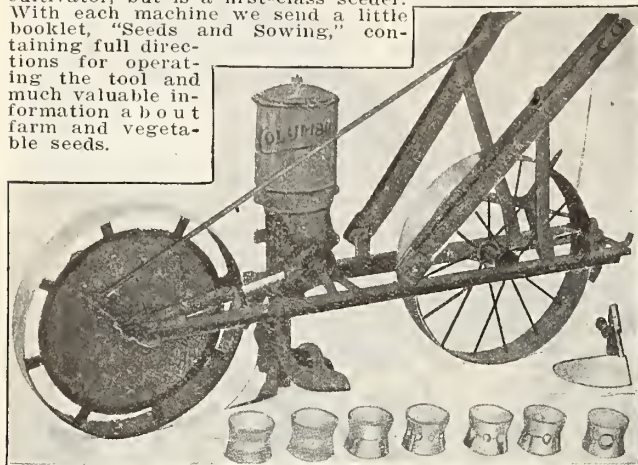


MATTHEWS' NEW UNIVERSAL



## COLUMBIAN GARDEN DRILL

The Columbia Garden Drill we consider one of the most perfect machines in the market for planting all kinds of seeds. It is not only adaptable to all kinds of vegetable seeds, but can also be used for planting seed grain or forage crops. It is popular with gardeners and around Des Moines is given preference. It is not a cultivator, but is a first-class seeder. With each machine we send a little booklet, "Seeds and Sowing," containing full directions for operating the tool and much valuable information about farm and vegetable seeds.



**No. 10.**—Like illustration. Strong, durable, simple, and performs the work splendidly. Regular price \$10.50; our special price \$9.75 each.

**No. 11.**—Is exactly like No. 10, but has two fertilizer attachments. One who has not used fertilizer in the drill when planting cannot realize the tremendous advantage gained in earliness and strong growth. Regular price, each \$14.50; our special price, each \$12.75.

**IMPROVED LITTLE GIANT SEED SOWER.**—Farmers should have a small hand seed sower for emergency use.

This is an improved style, strong, well made and durable. Very easy to understand and operate. Directions with each machine. By express \$1.25. Mailing weight 4 lbs.



EUREKA POTATO PLANTER  
EUREKA POTATO PLANTER.

The best hand potato planter that we know of as it does the work perfectly. It also plants beans and corn equal to any corn planter. See illustration. By express \$1.25. Mailing weight 4 lbs.

**EXCELSIOR WEEDING HOOK.**—Can be used to great advantage among small and tender plants. Price by parcel post each 15c, doz. \$1.26; by express each 10c, doz. \$1.00.



**BLUE GRASS STRIPPERS.**—For gathering seeds. Each, by express, \$2.00. Mailing weight 4 lbs.

**GARDEN TROWELS.**—By parcel post 5-in. 15c; 6-in. 20c. By exp. 5-in. 10c, 6-in. 15c.

**FLORIST TROWELS.**—Extra heavy and durable. Best made. By parcel post each 38c; by express, each 25c.

**"NEVERBREAK" GARDEN TROWELS.**—Extra heavy, strong, durable. By parcel post 33c; by express 25c.

**DIBBER.**—Steel pointed, for transplanting vegetable plants. Each, by parcel post, 33c; by express, 25c.

**EUREKA SEED DRILL.**—A small hand drill for vegetable seeds in beds. Gardeners will like it for sowing seeds in hotbeds. By express \$1.25. Weight, 3 lbs.

## CHILDREN'S GARDEN TOOLS

**No. 1.**—Consists of small hoe, rake and spade. Length 22 inches. Price per set, only 10c.

**No. 2.**—Large and much better tools. Price per set 25c.

**No. 3.**—A really serviceable and desirable set. Used also by many ladies for working in flower beds. Per set 50c.



**HOLDEN'S IDEAL CORN TESTER.—NO. 1.**—Made of galvanized iron as per pattern shown in the illustration. It is for testing ears of seed corn before shelling for seed. Capacity of this size 400 ears (one to each compartment) and each compartment is removable at will. It is quite simple in operation and full directions for use will be sent with each tester. By express or freight, not prepaid, \$10.00.

**HOLDEN'S IDEAL CORN TESTER.—NO. 2.**—A cabinet tester, with capacity for 1,000 tests at one time. By express or freight, each \$15.00.

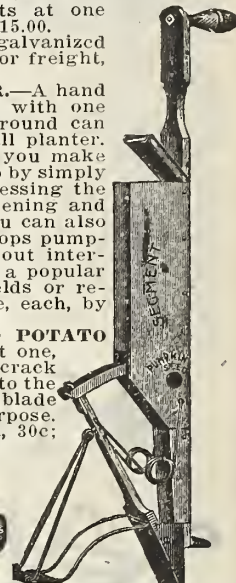
**No. 4.**—A single box tester of galvanized iron; capacity 200 tests. By express or freight, each \$5.00.

**SEGMENT HAND CORN PLANTER.**—A hand corn planter which can be operated with one hand, and an immense amount of ground can be planted in one day with this small planter. Drops as fast as you can walk, and you make it drop where you want it. Open drop by simply bending the planter forward thus pressing the spring which controls the hopper opening and permits the corn to fall through. You can also plant beans or peas with it and it drops pumpkin seed by a simple operation without interfering with the corn planting. It is a popular and successful tool and for small fields or replanting is specially desirable. Price, each, by express, \$1.25. Mailing weight 4 lbs.

**CONCAVED AND CURVED SEED POTATO KNIFE.**—Thin and right shape to cut one, two or three eye pieces fast and not crack tuber nor injure germ. Far superior to the ordinary straight blade knives for this purpose. Ea., by parcel post, 30c; by express, 25c.

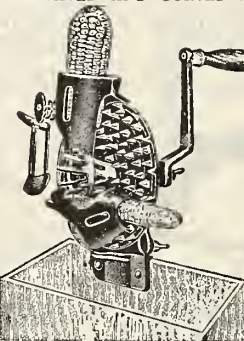


CONCAVED AND CURVED POTATO KNIFE.



SEGMENT CORN PLANTER

**STAR CORN SHELLER.**—A fine sheller for hand use. Has attachment for shelling tips and butts separately, making it desirable in saving seed corn. We also sell an extra attachment for shelling pop corn. Can be fastened on a box and has reversible chute which throws cobs out at the rear away from the shelled corn. Strong, well made, and will last a lifetime. At our very low price, we consider it the best hand sheller on the market. Each, by express, \$1.25; dozen, \$14.00. wt. 12 lbs.



PLANTER PATENT SEED CORN

**GRADER.**—Single Sieve. —A sieve grader 12x18 in. in size with screen of heavy galvanized iron and mesh especially suited to grading seed corn before planting. A cheap, quick and effective method of eliminating tip and butt grains and preparing seed for edge dropping. Each by express, 65c. Mailing weight 3 lbs.

**Double Sieve.**—Like above, with two sieves attached. Each, by express, \$1.00. Mailing weight 5 lbs.

SEED CORN GRADER

**LANG'S HAND WEEDER.**—Is in our opinion the best; its special feature a band which passes over the fingers, which, when the tool is not in use, gives full use of the hand for pulling weeds and thinning out plants without laying down the tool. Price 30c each, postpaid. By express, each 25c, dozen \$2.50.





# POULTRY SUPPLIES



**PLYMOUTH ROCK CHICK FOOD.**—This food has been prepared with the idea of supplying a perfectly balanced ration for young chicks. It has been demonstrated that young chicks do much better on our especially prepared feed than on any moist or soft food that can be obtained. The food is composed of various kinds of grains, bone and other nutritive foods, making it the most complete and cleanest chick food on the market. Price per 25 lb. bag 75c, 50 lbs. \$1.35, 100 lbs. \$2.50.

**PLYMOUTH ROCK HEN FOOD.**—In the preparation of this food we have had in mind the production of the best food that could be made for laying hens and the keeping of all fowls healthy. Price, 25 lbs. 65c, 100 lbs. \$2.25.

**PLYMOUTH ROCK POULTRY MASH.**—A mash food containing much the same ingredients as Plymouth Rock Hen Food. 25 lbs. 65c, 100 lbs. \$2.25.



**HAWKEYE CHICK FOOD.**—We do not add grit or shell to our Plymouth Rock brands of poultry foods but this brand contains both in the proper amounts. The grits used are small sizes suitable for the growing chicks. 25 lbs. 65c, 100 lbs. \$2.25.

**HAWKEYE HEN FOOD.**—Is like the Plymouth Rock Hen Food but has grit and shell added to the formula. Price, 25 lbs. 60c, 100 lbs. for \$2.10.

**ALFALFA CLOVER MEAL.**—An excellent preparation of alfalfa containing a large amount of digestible protein, especially adapted to be fed with a mash food. Valuable as a winter food. Price, 10 lbs. 25c, 25 lbs. 50c, 100 lbs. \$1.60.

**GROUND MEAT SCRAPS.**—Fresh beef thoroughly cooked and dried; excellent food for young chicks or laying hens. 10 lbs. 50c, 25 lbs. \$1.00, 100 lbs. \$3.50.



**CRUSHED RAW BONE.**—Really better than the shell, but will pay to use both. Best quality, made from fresh bones. 10 lbs. 50c, 25 lbs. \$1.00, 100 lbs. for \$3.00.

**RAW BONE MEAL.**—Ground fine for feeding small chickens; also used as a lawn fertilizer. Price, 10 lbs. 45c, 25 lbs. for 85c, 100 lbs. \$3.00.

**CRUSHED CLAM SHELL.**—Harder than oyster shell, and not dissolving so readily, will serve as grit; contains a large amount of available lime necessary in egg production. Price, 25 lbs. 35c, 100 lbs. 75c, 500 lbs. at 70c per 100.

**CRUSHED OYSTER SHELL.**—A most important article for the poultry yard and should be supplied liberally. Superior quality. Hens will keep healthier, lay better, and eggs will be more fertile if supplied with it. 10 lbs. 25c, 25 lbs. 35c, 100 lbs. 90c, 500 lbs. \$4.00.

**MICA CRYSTAL GRIT.**—Well known grit from the East. Harder, sharper and superior in every way to ordinary kinds. It goes further. Both fine and coarse sizes for fowls and chicks. Per 25 lbs. 35c; 100 lbs. 90c; 500 lbs. \$4.00.

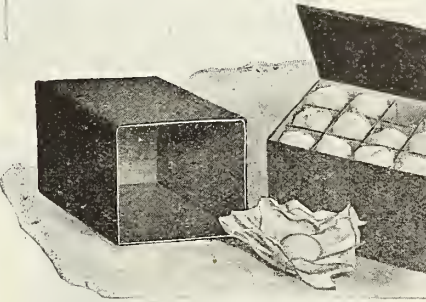
**PEARL GRIT.**—No better grit can be found for poultry. Sharp and wears sharp. Per 25 lbs. 35c, 100 lbs. 75c, 500 lbs. or more at 70c per 100 lbs.

**PEARL CHICK GRIT.**—A small grit which is a necessity when raising young chickens. Per 25 lbs. 35c, 100 lbs. 75c, 500 lbs. or more at 70c per 100 lbs.

**CHARCOAL.**—Granulated to right size. The large poultry size is also suitable for hogs. Two sizes, 5 lbs. 30c, 10 lbs. 50c, 25 lbs. 75c, 50 lb. bag \$1.20, 5 bags at \$1.00 per bag.

**MEDICATED CHARCOAL.**—Claimed to be better than ordinary charcoal. 5 lbs. 50c, 10 lbs. \$1.00, 25 lbs. \$2.25.

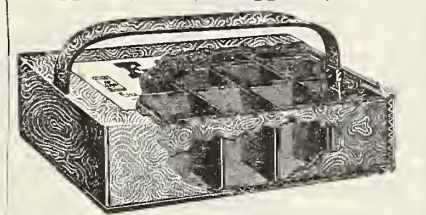
**CLIMAX BASKETS.**—Are desirable for shipping eggs for setting; will hold two settings of Leghorns, etc., or one of Asiatic. Price per 10, 50c; 50 for \$1.75; 100 for \$3.50. Weight 1 lb. each.



**SHIPS SAFE EGG CASES.**—Like picture above but shipped in flat, saving freight or express charges. We recommend them. Price, 15-egg size \$1.25 per doz., 30-egg \$2.00 per doz., 50-egg \$3.00 per doz., 100-egg \$5.00 per doz. Mailing weight, 15-egg size, 1 lb.; 30-egg size, 2 lbs.; 50-egg size, 3 lbs.

**SEFTON LIVE CHICK BOX.**—Made from corrugated paper with ventilating holes in top and sides; for shipping small, live chicks. 25-chick size \$1.50 doz., 50-chick size \$2.00 doz., 100-chick size \$3.50 per doz. Mailing weight, 25 size, 2 lbs.; 50 size, 4 lbs.; 100 size, 6 lbs.

**EYRIE EGG BOX.**—Made of corrugated paper. Very strong, light and durable. Self-locking. No. 1 holds 15 eggs, per dozen \$1.75. No. 2 holds 30 eggs, per dozen \$2.50. Mailing weight, 15-egg size, 1 lb.; 30-egg size, 2 lbs.



**LAMBERT'S DEATH TO LICE.**—A remedy for poultry vermin, moths, lice on horses, cattle or plants, fleas on dogs, etc. By express, 1 lb. pkg. 25c, 3 lb. pkg. 50c.

**CONKEY'S LICE POWDER.**—One of the most perfect lice killers. Also good for fleas on dogs and other animals. By express, 1 lb. pkg. 25c, 3 lb. pkg. 50c, 7 lb. pkg. \$1.00.

**LEE'S INSECT POWDER.**—Use on fowls, in nests, and among the litter. Has sprinkler top to the can. By express, 20 oz. pkg. 25c, 3 lb. pkg. 50c.

**ANTISEPTIC NEST EGGS.**—Keeps vermin from the nests and causes them to leave fowls. By express, per doz. 60c.

**GLASS NEST EGGS.**—6 for 25c; 42c per doz.; 4 doz. for \$1.25, postpaid.

**PRATT'S POULTRY REGULATOR.**—(Formerly called Pratt's Poultry Food.)—Will keep hens in good health and cure chicken cholera and other diseases of chickens and turkeys. By express, 26 oz. pkg. 25c, 4 lb. pkg. 50c, 9 lb. pkg. \$1.00.

Prices are subject to important market changes. Transportation to be paid by purchaser except where marked postpaid. In sending postage for items which you want to come by parcel post, be sure to add 1 pound to stated weight of package goods.

**CONKEY'S ROUP CURE.**—An excellent remedy that has been thoroughly tried and has given excellent satisfaction. Trial size 25c, regular size 50c, large size \$1.00, postpaid.

**CONKEY'S CHOLERA CURE.**—We consider this the most dependable cholera cure known. Used for cholera, indigestion, bowel trouble, diarrhoea and kindred diseases. Trial size 25c, regular size 50c, postpaid.

**CONKEY'S LAYING TONIC.**—A splendid item for laying hens, and beneficial to all poultry. By express, 24 oz. pkg. 25c, 3 1/2 lb. pkg. 50c, 7 1/2 lb. pkg. \$1.00.

**LEE'S EGG MAKER.**—Sold under a manufacturer's guarantee to make hens lay. Foundation is granulated blood, deodorized. By expr., 2 1/2 lb. pkg. 25c, 5 lbs. 50c. Add postage if by parcel post.

**LEE'S GERMOZONE.**—A liquid to be given in the drinking water of fowls. It will cure cholera, roup and nearly all poultry diseases. By express 50c. Mailing weight 2 lbs.

**GERMAZONE TABLETS.**—Lee's Germazone in the form of small tablets to be dissolved in drinking water of the fowls. Per box of 50 tablets, postpaid, 50c.

**LEE'S LICE KILLER.**—A liquid that will eradicate lice, mites and chiggers, by applying to roost and nest boxes. It is now considered the standard liquid lice killer. By express, qt. 35c, 1/2 gal. 60c, gal. \$1.00. Mailing weight, qt. 3 lbs.; 1/2 gal., 5 lbs.; gal., 10 lbs.

**CONKEY'S LICE LIQUID.**—For painting roosts, nest boxes, coops and houses. Kills lice and mites. By express, qt. 35c, 1/2 gal. 60c, gal. \$1.00. Wt. same as Lee's.



LEADER LEG BAND

**LEADER LEG BAND—No. 2.**—An adjustable band which can be used for any sized fowl from a bantam to a turkey. Made of aluminum, light and smooth. Doz. 15c, 100 65c, postpaid. 500, not prepaid, \$2.75.

**LEADER LEG BAND—No. 1.**—For bantams and smaller breeds. Doz. 15c, 100 65c, postpaid; 500, not prepaid, \$2.75.

**DOUBLE CLINCH LEG BANDS.**—The fastening consists of two clinches which close down over the end of band in such a way as to make it practically impossible to lose them off. Prices, postpaid, doz. 15c, 100 65c; not prepaid, 500 for \$2.75.

**PHILADELPHIA POULTRY MARKER.**—A convenient little spring punch for marking chickens. Marks small hole in web of the foot. 25c each, postpaid.

**PILLING LANDOWNE POULTRY MARKER.**—A handy poultry marker.

Look at the illustration and see how easy it is to use. Large or small size sent postpaid for 25c.

**CONKEY'S FLY KNOCKER.**—A liquid that kills all flies and insects it strikes, and drives others away. A great relief to cows and horses. Especially valuable to dairymen. Stock sprayed with Fly Knocker will not be troubled with insects while feeding. By express, qt. 35c, 1/2 gal. 60c, gal. \$1.00. Mailing weights, qt. 3 lbs.; 1/2 gal., 5 lbs.; gal., 10 lbs. We will quote special prices on large orders of supplies or feeds.





**LUTHE BROOD COOP.**—Round metal coop, made of galvanized iron, with sliding door which can be fastened open at desired size. Adjustable top for ventilation. Rat, mink, weasel, mite and rain proof. Owing to present high values of galvanized iron, price is higher than in former seasons, but the coop is so handy and such perfect protection for young chicks that it is recommended a bargain at present values. Size 22 in. diameter, 20 in. high. Each \$2.00; dozen \$21.00.

**EMPIRE EXHIBITION COOP.**—The standard make, used by nearly all first-class shows:

**Style AA**—Length 2 ft., width 2 ft., height 27 in., with solid ends and wire back \$5.00. We also carry the **Style AA**

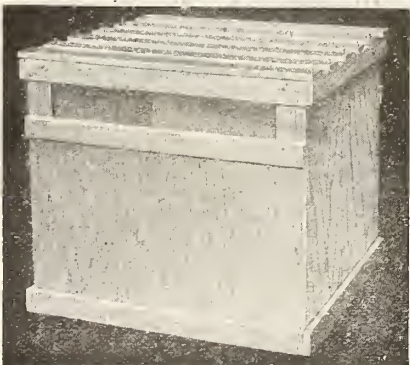
**Style C**—Is 4 ft. long with two compartments each of which is 22x24x26 in. Price with solid veneer ends, wire back and front, \$4.60; with solid ends and back \$3.00. With solid veneer back \$3.20. fronts 2 ft. long at 90c each. **Style C** fronts 4 ft. long at \$1.75 each. Larger sizes ordered when wanted.

**ECLIPSE EXHIBITION COOP.**—The frames and bottom are of basswood. Front bars iron. Top, sides and front curtain are canvas. Shipped "knock down" but are easily put together.

High Deep Long Weight Each  
**No. 1.** 28 in. 25 in. 20 in. 16 lbs. \$1.75  
**No. 2.** 28 in. 25 in. 36 in. 23 lbs. 2.50  
**No. 3.** 28 in. 25 in. 48 in. 27 lbs. 3.50

**IOWA SHIPPING COOPS.**—All wood. Sides and end pieces nailed together with cleats so that coops are readily made in using form. As shown by cut coops are ventilated front and back and tip is covered with slats, giving thorough ventilation. Cleats around upper and lower end make it easy to handle.

Dimensions Weight 1/4 doz. 1 doz.  
**No. 1.** 18x12x18 in. 6 lbs. \$1.00 \$3.60  
**No. 2.** 18x15x18 in. 8 lbs. 1.10 4.00  
**No. 3.** 18x20x18 in. 10 lbs. 1.25 4.50  
**No. 4.** 24x20x18 in. 12 lbs. 1.40 5.00  
**No. 5.** 30x20x18 in. 14 lbs. 1.75 7.00  
**No. 6.** 36x24x18 in. 16 lbs. 2.25 9.00



IOWA SHIPPING COOP.

**SUCCESSFUL SANITARY BROOD COOP.**—Made of galvanized iron. Rat, mink, weasel, mite and rain proof. Weights, No. 1, 13 lbs.; Nos. 2, 3, 20 lbs.  
**No. 1**—17 1/2 x 23 in.; height, front 16 in., rear 12 in. Each \$2.00; doz. \$21.00.  
**No. 2**—23 1/2 x 29 in.; height, front 24 in., rear 18 in. Each \$3.50; doz. \$36.00.  
**No. 3**—23 1/2 x 29 in.; height, front 16 in., rear 12 in. (for young chicks). Each \$3.00; doz. \$30.00.

**BANNER POULTRY FENCE.**—Made of heavy No. 17 galvanized wire with small square mesh at bottom, ranging larger at top. Strong and durable. Small chicks cannot get through and it will turn dogs and small animals. Put up in rolls of ten rods length.

Width	Cut Rolls Per 10 Ft.	Full Roll	Five Rolls
18-inch	\$.16	\$2.40	\$11.50
24-inch	.20	3.00	14.00
36-inch	.25	3.60	17.00
48-inch	.30	4.20	20.00
60-inch	.35	5.00	23.50
72-inch	.40	6.00	28.50

**GALVANIZED STAPLES.**—For fastening wire poultry netting, 10c per lb.

**WIRE HENS' NESTS.**—These nests are strongly made from heavy wire and will last a lifetime. There is no room on them for lice to find a lodging place, and they are easily kept clean. Each 15c, half doz. 80c, doz. \$1.50, not prepaid.

## POULTRY NETTING

We can supply both the hexagon mesh of the pattern shown in the illustration and also the square mesh at same price.



The best make; thoroughly galvanized to prevent rusting, and properly twisted. The following prices are subject to important market changes: Made of No. 19 wire and 2-inch mesh; put up in rolls 150 feet in length.

Width Inches	Per Roll	Width Inches	Per Roll
12	\$.90	36	\$2.70
18	1.35	48	3.60
24	1.80	60	4.50
30	2.25	72	5.40
One-inch mesh, No. 20 wire, for young chicks and Belgian hares.			
12	\$2.00	30	\$5.00
18	3.40	36	6.00
24	4.00		

Other widths if desired. Will allow 5 per cent discount on lots of five rolls or more.

Cut rolls, any width, of 2-inch mesh, 1 cent per square foot.  
 Cut rolls, any width, of 1-inch mesh, 2 cents per square foot.

## BLATCHFORD PRODUCTS

**CALF MEAL.**—Takes the place of milk as a feed for young calves. One pound makes a gallon of feed. Price, 25-lb. bag \$1.00; 50-lb. bag \$2.00; 100-lb. bag \$3.50; 500 lbs. \$16.50.

**PIG MEAL AND LAMB FOOD.**—For little pigs or lambs at same quantity prices as Calf Meal.

**EGG MASH.**—A feeding mash for laying hens. Claimed by manufacturer to be superior to any other formula. Price, 25-lb. bag 75c; 100-lb. \$2.75; 500 lbs. \$13.

**MILK MASH.**—For growing chicks and finishing fowls for market. Produces a wonderful growth in young chicks. Price, 5-lb. carton 25c; 25-lb. bag \$1.00; 100-lb. bag \$3.00;



BUFF PLYMOUTH ROCK

## EGGS FOR HATCHING

If 15 chicken eggs are wanted for a setting, add 15c to price quoted.

We are prepared this season to supply eggs for hatching from choice farm-raised, high-grade, thoroughbred stock of the leading varieties. They are superior egg-laying strains and have won many prizes at leading poultry shows.

**BARRED PLYMOUTH ROCKS.**—The farmer's favorite. From large, well-marked stock. Setting of 13 eggs \$1.25.

**WHITE PLYMOUTH ROCKS.**—Great egg producers and very early to mature. Our stock is pure white. Price per setting of 13 eggs \$1.25.

**BUFF PLYMOUTH ROCKS.**—Becoming very popular as a general purpose fowl. Per setting of 13 eggs \$1.50.

**WHITE WYANDOTTES.**—Rapidly becoming favorites. They are great layers, mature early and are pure white. Price per setting of 13 eggs \$1.50.

**SILVER-LACED WYANDOTTES.**—Most popular of Wyandotte class. Per setting of 13 eggs \$1.50.

**BLACK LANGSHANS.**—Very satisfactory for general purposes. Per setting of 13 eggs \$1.50.

**BROWN LEGHORNS.**—The greatest of all layers. Our stock is from one of the best laying strains in the country. Price per setting of 13 eggs \$1.25.

**SINGLE COMB WHITE LEGHORNS.**—Beautiful and profitable variety. Per setting of 13 eggs \$1.25.

**LIGHT BRAHMAS.**—High scoring stock. Per setting of 13 eggs \$1.50.

**RHODE ISLAND REDS.**—Single or Rose Comb as preferred. Per setting of 13 eggs \$1.50.

**BUFF ORPINGTONS.**—Large, handsome fowls. Per setting of 13 eggs \$1.50.

**WHITE ORPINGTONS.**—Most popular breed among fanciers. Our stock is a fancy strain. Setting of 13 eggs \$1.50.

**BLACK ORPINGTON.**—The Orpington that is the favorite of the breed with many. Per setting of 13 eggs \$1.50.

**BUFF COCHIN BANTAMS.**—Similar in shape and color to the standard Buff Cochin fowl, except in size. Price per setting of 15 eggs \$2.00; 7 for \$1.00.

**BRONZE TURKEYS.**—Usually scarce, but we hope to have a good supply this season. Setting of nine eggs \$3.50.

**WHITE HOLLAND TURKEYS.**—Preferred by some over the Bronze variety. Per setting of nine eggs \$3.50.

**MAMMOTH WHITE PEKIN DUCKS.**—Per setting of nine eggs \$1.50.

**INDIAN RUNNER DUCK.**—Considered the best layers of any breed of ducks. Quick growing. Setting of 9 eggs \$1.50.

**EGGS FOR INCUBATORS.**—Write us for prices, stating the number of eggs you will want and breed. Will quote you very lowest prices.

**BREEDING STOCK.**—A few choice cockerels and pullets at reasonable prices. Order early as our stock is limited. We send out only choice stock which will please our customers. Write for a price list.

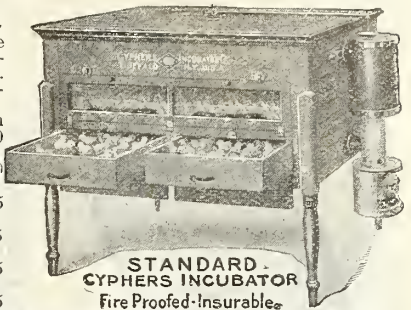


## SUCCESSFUL GRAIN SPROUTER

For sprouting oats or other grain for poultry. Made entirely of galvanized steel in sections as shown in illustration. Each section holds two trays for grain. Sections are interchangeable and sprouter may be enlarged by additional sections as needed. Five sizes.

No. 1—Base and 1 Section, wt. 50 lbs.—2 trays, Each holds 8-10 qts. dry grain (30 to 60 hens).....	\$ 6.50
No. 2—Base and 2 Sections, wt. 70 lbs.—4 trays, holds 16-20 qts. dry grain (75 to 100 hens)....	8.50
No. 3—Base and 3 Sections, wt. 85 lbs.—6 trays, holds 24-30 qts. dry grain (130 to 200 hens)...	10.25
No. 4—Base and 4 Sections, wt. 100 lbs.—8 trays, holds 32-36 qts. dry grain (250 to 300 hens)...	12.75
No. 5—Base and 5 Sections, wt. 115 lbs.—10 trays, holds 40-50 qts. dry grain (400 to 600 hens)...	15.75

Each additional Section and 2 galvanized all-steel trays, wt. 20 lbs..... 2.75



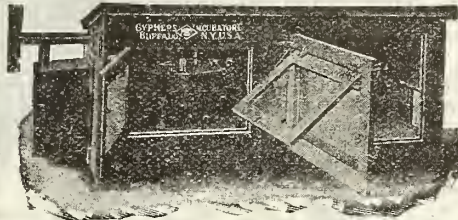
STANDARD  
CYPHERS INCUBATOR

Fire Proofed-Insurable

## CYPHERS STANDARD INCUBATOR

After experimenting with a number of incubators, we have chosen the Cypher's Standard for our offering. It always gives the best of satisfaction, is the easiest to operate, requires the least amount of oil, capacity considered, and will hatch a larger per cent than any other machine we have ever tried, including more than twenty of the leading machines. Nos. 0 and 1 do not have nursery shown in illustration.

No. 0, 70 egg... \$15.00	No. 1, 144 egg... \$22.00
No. 2, 244 egg... 32.00	No. 3, 390 egg... 38.00

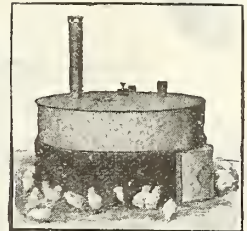


## CYPHER'S BROODERS.

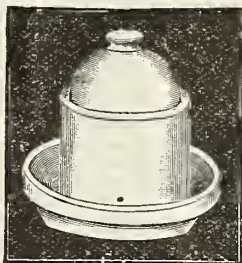
Style A. Outdoor, 32x32 inches.....	\$12.50
Style B. Outdoor, 32x36 inches.....	16.50
Style C. Outdoor, 32x62 inches.....	18.50

**CYPHER'S PORTABLE HOVER.**—You can set the portable hover any place—colony house, laying house, barn or dwelling. Self regulating with zinc and steel thermostat. Moved at will without disturbing the lamp. Make a pen of boards or wire netting around it and you have a perfect brooder. Capacity, 75 to 100 newly hatched chicks. Complete with thermometer, price each \$8.50.

**CYPHER'S GRIT AND SHELL BOXES.**—Are made of galvanized iron. Like illustration of Moe's grit and shell box except bottom is flat. Can be hung up or set on the ground. By express, No. 1, 3 compartments, 65c; No. 2, 2 compartments, 75c. Mailing weights, No. 1, 3 lbs.; No. 2, 4 lbs.



PORTABLE HOVER



SANITARY FOUNTAIN

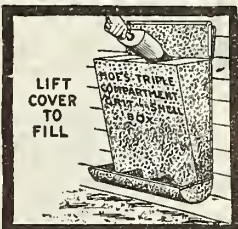
## SUCCESSFUL GRAIN SPROUTER

**SANITARY DETACHABLE FOUNTAIN.**—Is made of stoneware; the chicks can drink all around. Easily cleaned. Shipped only by freight or express. One-quart 25c, doz. \$2.50; 2-quart 30c, doz. \$3.00; gal. 35c, doz. \$3.50; 2-gal. 50c, doz. \$5.00.

**MOE'S GRIT AND SHELL BOX.**—Has three compartments for grit, shell and charcoal; galvanized iron. Can be used as feed hopper for small chicks; ½ pk. By express 50c. Wt. 4 lbs.



TGP FILL FOUNTAIN



GRIT AND SHELL BOX



SANITARY FEED TROUGH



DRY FEED HOPPER



TRAP NESTS

**MOE'S TOP FILL FOUNTAIN.**—Won't slop over. Dead air space keeps water cool in summer, warm in winter. Simple in construction. Remove cover and fill from top. Water ceases to flow when cover is removed. By express, 1-gal. \$1.25; 2-gal. \$1.75; 4-gal. \$2.25. Mailing weights, 1-gal. 3 lbs.; 2-gal. 5 lbs.; 4-gal. 10 lbs.

**MOE'S SANITARY FEED TROUGH.**—Can be used for feed; mash or water. Barred top prevents waste. Made of galvanized iron. By express, No. 21, 12 in. long, each 25c; No. 22, 18 in. long, 50c; No. 23, 24 in. long, 75c. Mailing weights, No. 21, 1 lb.; No. 22, 2 lbs.; No. 23, 4 lbs.

**MOE'S TRAP NEST.**—Made of galvanized iron; in two sizes. Principal shown in illustration. Price, No. 1, for Mediterranean breeds, size 12x12x12, each 75c; No. 2, for larger breeds, size 12x12x14, each \$1.00. Mailing weights, No. 1, 5 lbs.; No. 2, 6 lbs. Fronts only, for fastening to ordinary nest boxes, each 35c.

**STAR FOUNTAIN.**—Made for Mason jar, like Northwestern, but instead of being round it is star shaped. This is an advantage as not so much water is exposed, and the chicks or fowls cannot pollute it while drinking. Each 20c, postpaid.

**MOE'S DRY FOOD HOPPER.**—A shown by illustration, this hopper is devised to permit fowls access to the feed without scattering or wasting. In two sizes, medium, 75c; large, \$1.00. Mailing weights, No. 1, 3 lbs.; No. 2, 5 lbs.

## BONE CUTTERS --- GRINDING MILLS

**HUMPHREY'S GREEN BONE AND VEGETABLE CUTTER.**—One of the leading bone cutters. Be sure and investigate this before you purchase. Manufacturer's guarantee given with each cutter sold. No. 1 cutter \$12.00; No. 2½, semi-power, \$15.00; No. 2, all-power cutters, each \$13.50.

**HUMPHREY'S RAPID CLOVER CUTTER.**—For cutting clover, alfalfa, etc., which are essential foods for poultry. Strong and durable, with five cutting knives and double-edge stationary knife which is reversible. Price, each, \$11.00.

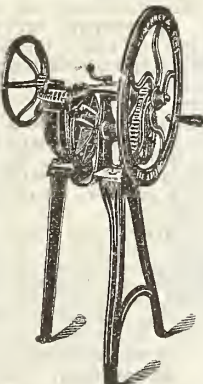
**CROWN BONE CUTTERS.**—No. 1.—Weights 50 lbs.; is to be bolted to bench or table for operation. Each \$7.00.

No. 2.—Same as above, but has a tripod metal stand upon which cutter is fastened. Weighs 80 lbs. Each \$8.50.

**MODEL GRINDING MILL.**—To grind shell, grit, bone and grains. Easily adjusted to grind coarse or fine as desired. No. 1, each \$2.50. No. 2, each \$5.00.



STAR FOUNTAIN



HUMPHREY'S  
BONE CUTTER

**NORTHWESTERN AUTOMATIC FEEDER AND FOUNTAIN.**—A metal pan in the center of which can be fastened a Mason fruit jar. Fill the jar with feed or water as desired, screw on pan and turn jar upside down, and the contents flow automatically into the pan as needed. We sell pans only, as everyone has Mason jars. Pans 5-in. diam., each 20c, postpaid; 6-in., each 25c, postpaid.

**INCUBATOR THERMOMETERS.**—We handle the best manufactured. All tested, and of known accuracy.

No. 751.—Straight, upright pattern, reads upward. Each 55c, postpaid.

No. 756.—Reads almost horizontally, but is liked by many as it lies in the machine without danger of breakage from agitation. Each 65c, postpaid.

**NORWICH EXERCISER AND FEEDER**

No. 1—8 qt. hopper; wt. 12 lbs....	\$2.50
No. 2—14 qt. hopper; wt. 15 lbs....	3.25
No. 3—20 qt. hopper; wt. 20 lbs....	4.10
No. 4—32 qt. hopper; wt. 30 lbs....	5.00

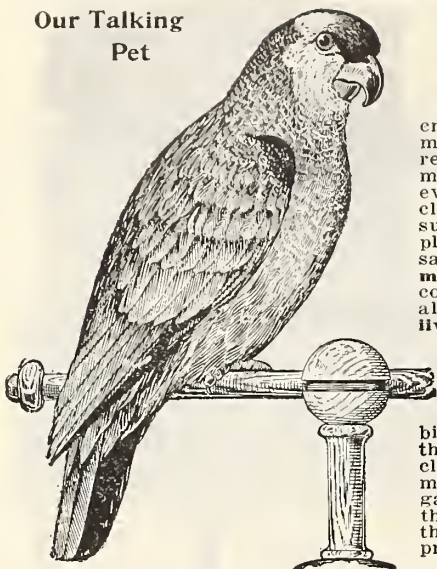
**HEN FRIEND DRINKING FOUNTAIN.**—Galvanized iron. Is easily handled. Exp., 2-qt. size each 25c; 4-qt. each 35c; 10-qt. ea. 50c. Mailing weights, 2-qt., 1 lb.; 4-qt., 2 lbs.; 10-qt., 3 lbs.



THE LATEST AND BEST DEVICES AND APPLIANCES FOR LESSENING THE LABOR IN THE POULTRY YARD ARE LISTED HERE.



# Our Talking Pet



## PARROTS

### GUARANTEED TALKERS

A bird that talks has a wonderful charm. Below we offer young, tame, hand raised parrots guaranteed to learn to talk. Living arrival guaranteed to any express office in U. S. located on a railroad. Birds ready to ship in early summer. Order very early.

**CUBAN PARROTS.**—Medium size, and make nice talkers. Usually in stock from June to September. \$5.50 each.

**ROYAL AZTEC DOUBLE YELLOW HEADS.**—Our very finest talking strain, unsurpassed as imitators of the human voice. They are superior to all other American parrots and make most fluent talkers. Guaranteed. Price \$15.00 during summer, but usually higher after August 15th.

**COMMON DOUBLE YELLOW HEADS.**—Very good birds fully guaranteed and second only to the Royal Aztecs. Price \$9.75 during the summer.

**MEXICAN RED HEAD PARROTS.**—Medium size, make nice talkers and great pets. Young birds ready in June. Price \$5.00 each. Price higher toward end of season.

**PANAMA PARROTS.**—Large, green parrots, very fluent talking species. Usually in stock entire year. Price, \$12.50 each.

**CARTHAGENA OR SINGLE YELLOW HEADS.**—Guaranteed. Ea. \$12.50.

**TRAINED PARROTS.**—We buy and sell educated parrots. Ask about them.

## BIRDS

"Little Dewdrops of Celestial Melody."

The companionship of a bird has brightened the life of many a tired, over-worked mother on whom the daily cares and burdens rested heavily. The music of a good singer makes the whole house more cheerful and every member of the family enjoys the pure, clear notes of a happy little song bird. The superior quality of our imported canaries will please the most critical. We handle thousands of birds annually and have the **largest mail order business in America.** Ask for complete illustrated catalogue. We ship to all parts of the United States and **guarantee live arrival** to any express office which is a railroad station. Express charges are to be paid by purchaser on all goods on this page except where stated. Book on canaries for 25c. Descriptive catalog free.

**HARTZ MOUNTAIN CANARIES.**—These birds are bred in Germany, high up among the Hartz mountains, and are famous for their clear, pure, beautiful song, which is a restful melody. Because their voice is just as nature gave it—unchanged by any training—we call them Nature's Solo Singer, to distinguish them from the trained bird below. These are the finest singers ever offered at the price. Male birds, guaranteed good singers, ea. \$3.50. In stock from September to April.



HARTZ MOUNTAIN CANARY

These are the finest singers ever offered at the price. Male birds, guaranteed good singers, ea. \$3.50. In stock from September to April.

**ST. ANDREASBERG JUBILEE ROLLERS.**—These birds are trained singers imported from Germany. Their tones are sweet, round and full, consisting of delightful bell notes, low water bubble, charming flute notes and long, silvery trills. Their most restful music continually surprises by its many changes. Male birds, guaranteed good singers. Each 5.00. In stock November to April.

**FEMALE CANARIES.**—Hartz females \$1.50 and \$2.00 each. Roller females \$3.00 each. Order between September 1st and March 15th.

**OTHER BIRDS.**—Following usually in stock from October to April. Goldfinches, males.....\$2.50 each  
Linnets, males..... 2.50 each  
Bullfinch, males..... 3.00 each  
Following usually in stock at all times:

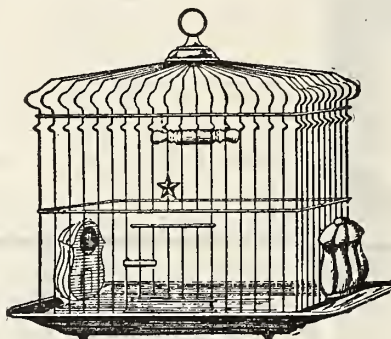
Brazilian Cardinal, males....\$4.25 each  
Java Sparrows, white..... 7.50 pair  
Java Sparrows, gray..... 3.00 pair  
Australian Shell Paroquets... 7.50 pair  
Royal Scarlet Macaws.....25.00 each  
Sulphur Crest Cockatoos.....15.00 each  
Rose Breast Cockatoos.....10.00 each

Any bird not in stock will be obtained for you when possible. Write for what you want. Ask for Bird Catalogue free.

**ROUND PARROT CAGES.**—Tinned wire, durable, and very satisfactory. 13 inches in diameter, \$2.25; 14-inch \$2.75; 16-inch \$3.50; 18-inch \$4.50.

**WIRE NESTS.**—10c each. Postage on one to three nests 4c extra.

**TOY BELLS.**—For birds, 7c, postpaid.  
**PARROT BELLS.**—Each 12c, postpaid.



IMPROVED BRASS CAGE

**IMPROVED BRASS CAGES.**—(Like cut.)—7x10 \$1.70; 8½x11½ \$2.60.

**IDEAL BRASS CAGE.**—Like cut but has brass screen around lower part. Size 6x9 \$2.20; 7x10 \$3.00; 8½x11½ \$3.50; 8½x11, fancy top, \$5.00.

**BREEDING CAGES.**—Wood frame. Single compartment; 17 in. long \$1.75; 19 in. \$2.00. Double: 19 in. \$2.50; 21 in. \$3.00.

**PARROT BOOK.**—Paper cover, 25c. Parrot Catalogue free.

## BIRD SEED

But few persons are aware how much a bird's health, and consequently its song, depends upon feeding strictly fresh seed properly mixed and of good quality. As you value the life of your bird, feed only our fresh seed.

**SUPERIOR MIXED BIRD SEED.**—Per lb. 15c; 2 lbs. 25c.

**GERMAN SUMMER RAPE.**—Fed very largely to trained canaries. Price 15c per lb.; 8 lbs. \$1.00.

**SICILY CANARY.**—Price 20c per lb.

**MAMMOTH RUSSIAN SUNFLOWER.**—Price 15c per lb., 2 lbs. for 25c.

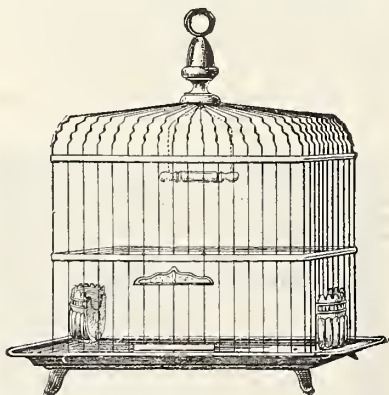
**MIXED PARROT SEED.**—Same price.

**PARROT DAINTIES.**—Per pkg. 25c, postpaid.

**BIRD HEALTH.**—A preparation of our own which will keep birds in good condition at all times. It relieves colds and cures obscure ailments after other remedies fail. Restores the voice and invigorates the system. Price per 2 oz. box 15c, postpaid. Four boxes for 50c.

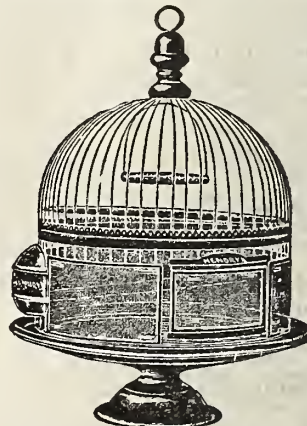
**CUTTLE BONE.**—7c each, postpaid.

**PREPARED MOCKING BIRD FOOD.**—Best food on the market for all soft billed birds. Can 35c, wt. about 2 lbs.



**JAPANNED OR PAINTED CAGE.**—Best cage on the market for the money. It is neat, durable and convenient.

No.	Size	Wt.	Price
65.....	6½x9½ in.	4 lbs.	\$ .85
66.....	7 x10½ in.	4 lbs.	1.00
67.....	7½x11 in.	5 lbs.	1.25
68.....	8½x12½ in.	5 lbs.	1.40



CLIMAX CANARY CAGE

Very popular style. Neatly japanned, has screen to prevent scattering of the seed. Diameter 11 inches, total height 17½ inches. Parcel post weight 6 lbs. Price, by express, each \$2.25.



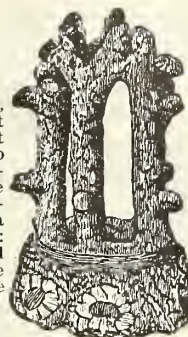


GLASS FISH GLOBE

# GOLDFISH

BEAUTIFUL; EASY TO KEEP; WE TELL YOU HOW.

Did you ever own a globe of Goldfish? You admire them, no doubt, for their pretty form, exquisite coloring and graceful movements, but if you have never kept fish, you cannot realize how your interest grows as you become more familiar with them. They are not hard to keep; just follow our plain printed directions sent free with each Goldfish order and you can hardly fail to succeed. Goldfish are kept quite generally in city and town and there seems no reason why our customers in the country should not share just as fully in the pleasure a nice aquarium affords. Be the first in your locality to get an outfit: you will find all the neighbors interested and their admiration will add to your enjoyment of the fish. We ship Goldfish any time of the year, but buy early in the season while it is still cool weather because this is favorable for the fish. Ask for free Aquaria Catalogue.



AQUARIA CASTLE

**GOLD FISH.**—While there are many varieties of goldfish as named and described in this list, we refer only to the plain variety by this name. These are more popular than the fancy sorts, being low priced and generally satisfactory. They are a species of carp, originally inhabiting ponds and sluggish streams in China, and they are better adapted to life in fish globes than any other breed of fish. They are universal favorites, of golden red color. Those bred in this state seem to have a peculiar brilliancy of coloring which is especially noticeable when in the fish globes. Prices, 10c, 15c, 25c, 35c, 50c and \$1.00 each, according to size. The 25c size (5 for \$1.00) is the most popular. The largest size is only suitable for ponds or fountains.

**SILVER FISH.**—This is simply an uncolored gold fish of dark silvery color. Nice for variety. Medium size 10c each; 6 for 50c.

**PEARL FISH.**—These elegant fish are either of a clear pearly white color or white is variegated with gold markings. Medium size 25c; 6 for \$1.00.

**AMERICAN FANTAIL FISH.**—Are bred from the imported Japanese fish and are very handsome. Price, according to size, shape and color, 25c, 35c, 50c and 75c each.

**ORIOLE FISH.**—Are beautifully variegated golden red and clear black. Medium size 30c each.

**AQUARIUM CASTLES.**—Very pretty castle like cut in upper right corner. Size for 1 gal. globe 20c, parcel post weight 1 lb. Size for 2 gal. globe 30c, weight 2 lbs. Ask for free Aquaria Catalogue showing many other styles.

**PREPARED FISH FOOD.**—Good for all kinds of gold fish. This we import from Germany where they make the best quality and of the purest materials. Price 10c per box, postpaid.

**GLASS FISH GLOBES.**—These are neat, cheap and consequently more popular than the large aquariums. Like cut in upper left corner of page. Measurements are approximate.

1-qt.—5 in. .25 4-qt.—8 in. \$.60  
2-qt.—6 in. .40 8-qt.—10 in. 1.00  
12-qt.—11 in. \$1.50

**COMET FISH.**—Also called "Gorgeous Tails," "Long-Tailed Beauties," and "Fancy Gold Fish." They are without doubt the most graceful in their movements of all aquaria fish. Medium size 25c each; large 50c each. Extra choice colors and markings 75c to \$1.25.

**JAPANESE FANTAIL FISH.**—By far the most popular of all fancy fish and the most satisfactory of the imported varieties. The fins and tails are long and of delicate lace-like appearance. The tail is V-shape and frequently divided so that it might be called two distinct tails. They are beautifully variegated usually with golden red and pearly white or black. Choice specimens 50c each. Fancy 75c each. Extra fancy \$1.00 to \$3.00 each.

**JAPANESE FRINGETAIL FISH.**—These aristocratic fish are undoubtedly the most beautiful of all aquaria fish, having extremely long, drooping tail and fins. Choice specimens sell at \$10.00 to \$50.00 each. We can furnish select specimens at \$3.00 to \$5.00.

**TELESCOPE FISH.**—A very curious appearing fish which always attracts attention from its "extreme ugliness." Its eyes are abnormally large and bulging. Price \$1.00 to \$1.50. Black Telescopes, which are quite rare, \$3.00 each.

**SHIPPING BUCKETS.**—Unless you order fish globe with fish it will be necessary to ship them in a can or bucket. For this purpose we offer 2 or 3-quart tin buckets suitable for holding 6 medium sized fishes or less at 15c each, 4-quart at 20c, 6-quart, will hold 12 medium sized fishes, 25c.

**STANDING FISH GLOBES.**—These are raised up on a glass base and are handsomer than the ordinary fish globe.

Holds About Ea. Holds About Ea.  
½ gallon.....\$1.00 2 gallons....\$2.25  
1 gallon.....1.25 3 gallons....3.00

**AQUARIA BOOK.**—Illustrates and describes all best kinds of fancy fish. How to breed and care for gold fish, etc.; 64 pages; 15c; cloth bound, 50c, postpaid.

**AQUARIUM PLANTS.**—See page 101.  
**WHITE SAND.**—Absolutely clean. Is very beautiful for aquariums. Price per pkg. (about 2 lbs.) 10c.

**DIP NETS.**—For handling fish without danger of injuring them. Medium size, 25c, postpaid.

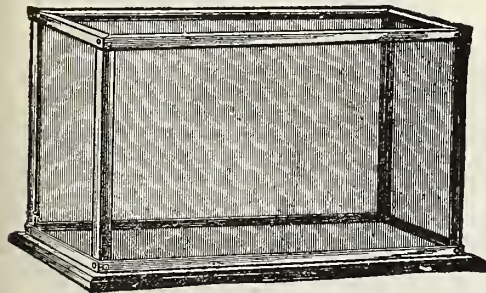


THE PARLOR AQUARIUM.

This is such a pretty and unusual design that it is very popular and a great seller. It consists of a shallow globe which rests on a metal stand where it is held by a thick glass stem protruding from lower part of the bowl. The wide open top allows freest access of air for the fish and gives best opportunity for arranging plants or ornaments, all of which are visible to best advantage. Globe with aluminum stand \$3.25, or with plants and four fish to stock it, all for \$4.75. Same aquarium with neat black iron stand, 50c less.

## HOME COLLECTION

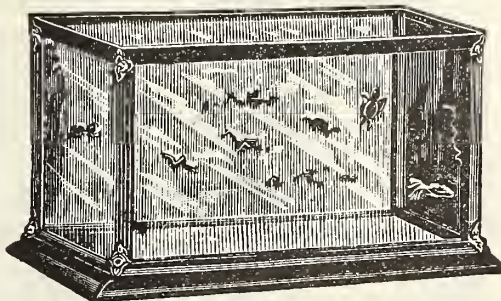
Consists of one 4-quart Globe, three pretty Fish, Plant, Shells, and Food. Weight, packed for shipment, about 13 pounds. Price, \$1.25.



**STANDARD AQUARIUM.**—Very strong iron frame, thick slate bottom. Our best line.  
No. 1, size 18x10x11, holds 5 gal.....\$ 7.00  
No. 3, size 22x14x13, holds 12 gal.....10.00  
Dimensions are outside measure. Larger sizes quoted on request.

## PARLOR COLLECTION

Consists of one 8-quart Globe, five Fancy Fish, Food, Plant, Shells. Shipping weight about 20 pounds. Price of Collection, \$2.00.



**BOSS AQUARIUM.**—Best low-priced aquarium on the market.  
No. 10, size 14½x9½x10, holds 3½ gal..\$3.00  
No. 11, size 18 x10½x11½, holds 6 gal..4.00  
No. 12, size 20½x13 x13½, holds 9 gal..5.00  
Dimensions outside measure.

## BOOKS ON FISH

**THE AQUARIA.**—Listed above. Best popular low-priced treatise on Goldfish. By C. N. Page. Price, paper cover, 15c; cloth bound, 50c.

**GOLDFISH.**—A large work by Hugo Mullert. Very comprehensive and interesting. Price, \$2.00, postpaid.

**GOLDFISH BREEDS.**—An up-to-date work endorsed by scientists and specialists in this line. It contains 280 illustrations, has 390 pages and is well bound. Price, \$3.00, postpaid.

**CEMENT.**—Invincible waterproof cement, to set glass in aquarium. Lb. 25c.



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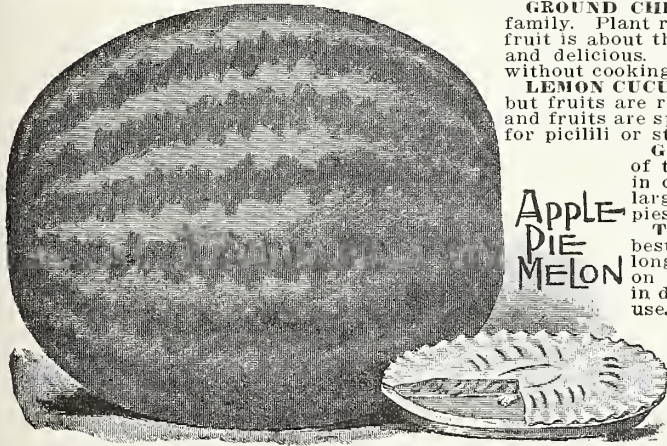
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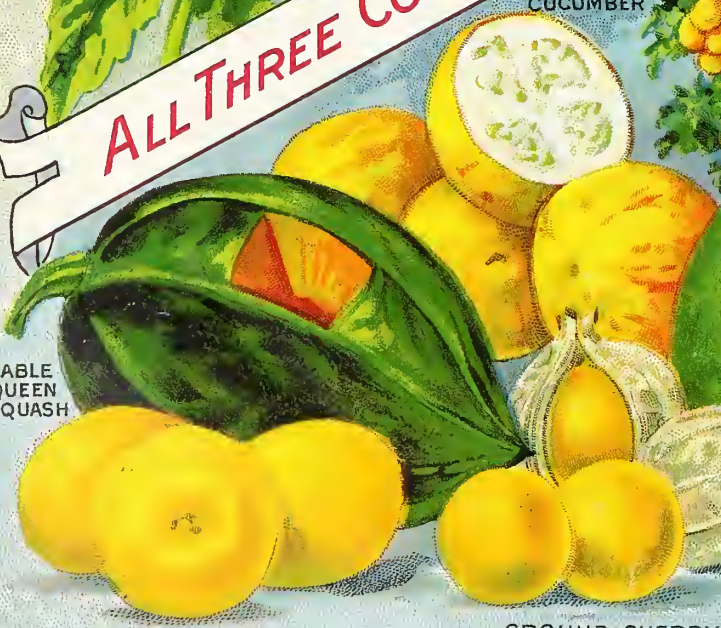
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**LEMON CUCUMBER**



**VINE PEACH**

**GROUND CHERRY**



**APPLE PIE MELON**

**TABLE QUEEN SQUASH**

